

500
N219
1924
cop. 2

Nat. Hist. Survey

THE
**NATURALISTS'
DIRECTORY**

CONTAINING

**NAMES, ADDRESSES and SPECIAL SUBJECTS of
STUDY of PROFESSIONAL and AMATEUR
NATURALISTS of the UNITED STATES
and CANADA**

PUBLISHED APRIL, 1924

SALEM, MASS., U. S. A.
SAMUEL E. CASSINO
1924

Price after publication \$5.00

BOOKS ON INSECTS and BIRDS

Full and comprehensive Cata-

l

(691—1M—7-23)

ILLINOIS STATE

NATURAL HISTORY SURVEY

LIBRARY

B

509.2

12

470 P

1924

P

g

APHY

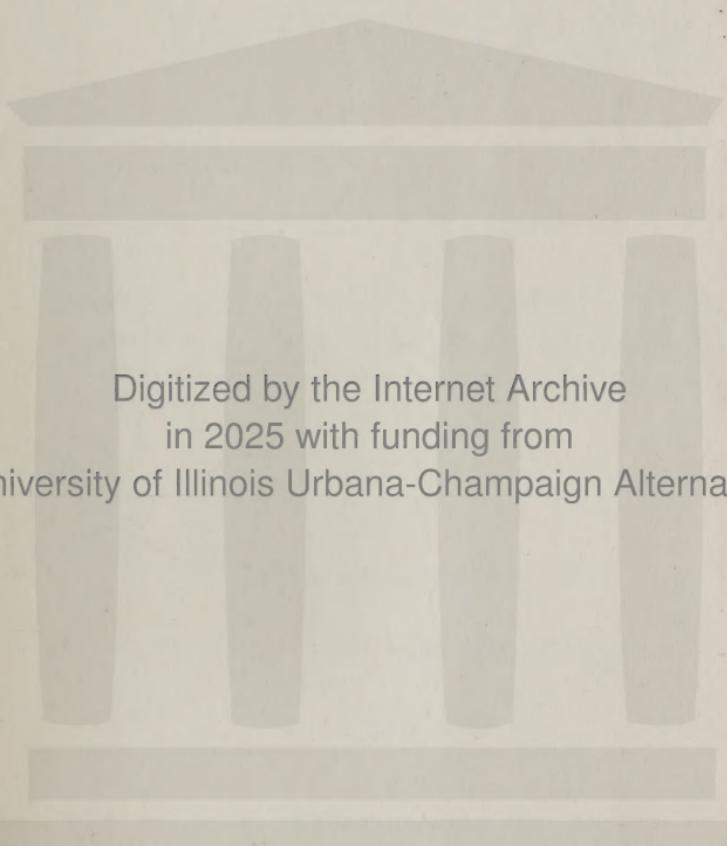
ID

132 PRIMROSE AVENUE

Mount Vernon, New York







Digitized by the Internet Archive
in 2025 with funding from
University of Illinois Urbana-Champaign Alternates

<https://archive.org/details/naturalistsdirec1924unse>

THE
NATURALISTS'
DIRECTORY

CONTAINING

NAMES, ADDRESSES and SPECIAL SUBJECTS of
STUDY of PROFESSIONAL and AMATEUR
NATURALISTS of the UNITED STATES
and CANADA

PUBLISHED APRIL, 1924

THE LIBRARY OF THE

JAN 13 1927

UNIVERSITY OF ILLINOIS
SALEM, MASS., U. S. A.
SAMUEL E. CASSINO
1924

COPYRIGHT
BY SAMUEL E. CASSINO
1924

ALL RIGHTS RESERVED

500
N219
1924
cop. 2

Nat. Hist. Surv.

ABBREVIATIONS

Acad., Academy	Ichth., Ichthology
Agric., Agriculture	Inorg., Inorganic
A. n., American	Inst. Instructor
Anat., Anatomy	Invert., Invertebrate
Anth., Anthropology	L. & F. W., Land and Fresh Water
Antiq., Antiquities	Lepid., Lepidoptera
Arch., Archaeology	M., Marine
Ast. Astronomy	Mam., Mammalogy
Assoc., Association	Math., Mathematics
Asst., Assistant	Med., Medical
Biol., Biology	Metall., Metallurgy
Bot., Botany	Mic., Microscopy
C., Collection	Min., Mineralogy
Carb., Carboniferous	Moll., Molluscs
Ceramb., Cerambycidæ	Morph., Morphology
Chem., Chemistry	Mus., Museum
Cin., Cincinnati	Mycol., Mycology
Coloapt., Coleoptera	Nat. Hist., Natural History
Col., Collection	Neuropt., Neuroptera
Coll., College	Obs., Observatory
Comp., Comparative	Ool., Oology
Conch., Conchology	Org., Organic
Crypt., Cryptogamic	Orn., Ornithology
Crystall., Crystallography	Orthopt., Orthoptera
Crust., Crustacea	Osteol., Osteology
Cur., Curator	Palaeo., Palaeontology
Cytol., Cytology	Pathol., Pathology
Dipt., Diptera	Phæn., Phænogamic
Dir., Director	Photog., Photography
Dist., Distribution	Phys., Physics
Ecol., Ecology	Pres., President
Econ., Economic	Prof., Professor
Emb., Embryology	Psychol., Psychology
Ent., Entomology	Sec., Secretary
Ex., Exchange	Sci., Science
Eth., Ethnology	Soc., Society
Esp., Especially	Spec., Species, Specimens
Gen., General	Surv., Survey
Geog., Geographical	Syst., Systematic
Geol., Geology	Tax., Taxidermy
Hist., Histology	Univ., University
Hemipt., Hemiptera	Vasc., Vascular
Herpetol., Herpetology	Veg., Vegetable
Histol., Histology	Vert., Vertebrates
Hort., Horticulture	Zool., Zoology
Hymenopt., Hymenoptera	

THE
NATURALISTS' DIRECTORY
UNITED STATES AND CANADA

Abbe, Cleveland, Jr., College of the City of N. Y., New York City.

Abbe, Frank B., San Juan, San Benito Co., Cal. Min., Geol. **C. Meteorology.**

Abbot, C. G., Asst. Sec. & Dir. Astrophys. Obs., Smithsonian Inst., Washington, D. C.

Abbott, Charles Harlan, Prof. of Zool., Univ. of Redlands, Redlands, Calif. **Field study of the various groups of animals.**

Abbott, Clinton G., Dir. Natural History Museum, San Diego, Calif. **Orn.**

Abbott, Cyril E., 24 So. Liberty St., Elgin, Ill. **Birds; animal behavior, esp. insect behavior.** C. Ex.

Abbott, Frances Matilda, Concord, N. H. **Orn.**

Abbott, Howard C., Asst. in Bot., Univ. of Ill., Urbana, Ill. **Plant Pathol.**

Abbott, Prof. James Francis, Washington Univ., St. Louis, Mo. **Corixidae.** C. Ex.

Abbott, W. L., Assoc. in Zool., Smithsonian, Washington, D. C. **Zool.**

Abel, Dr. John J., Johns Hopkins Univ., Baltimore, Md.

Abrams, LeRoy, Prof. of Botany, Cur. Dudley Herb., Stanford University, Calif. **Plant Geography, Taxonomy, Dendrology.**

Achorn, J. W., M. D., Pine Bluff, N. C. **Orn.**

Achorn, Dr. Ralph C., 75 Huntington Ave., Boston, Mass. **Bot.**

Adams, A. Elizabeth, Assoc. Prof. of Zool., Mt. Holyoke College, So. Hadley, Mass. **Amphibia.**

Adams, Dr. Chas. C., Prof. of Forest Zool. and Dir. of the Roosevelt Wild Life Forest Expr. Sta., The New York State College of Forestry, Syracuse, N. Y. **Ecol of Animals & Plants., Geog. dist. of plants and animals.**

Adams, Charles E., M. D., 29 West Roxbury, Bangor, Me. **Forestry, Bot., Hort.**

Adams, Frank Dawson, McGill Univ., Montreal, Can.
Geol., Lithol.

Adams, Henry Saxon, B. A. S., Jamaica Plain, Mass. **Bot., Hort. C.**

Adams, John, Central Expr. Farm, Ottawa, Ont., Can. **Bot.**

Adams, Oscar S., U. S. Coast and Geodetic Surv., 327—7th St., N. S., Washington, D. C. **Orn., Bot., Zool.**

Adams, Roger, Prof. Org. Chem., Univ. of Ill., Urbana, Ill. **Curios.**

Adams, W. D., Wilmington, Vt. **Rocks, Min., Shells, Curios.**

Adams, Dr. Zabdiel B., 166 Newbury St., Boston, Mass. **Bot.**

Addis, Albert L., R. F. D. 3, Albion, Ind. **Arch. Bird stones, Ceremonials, targets, pipes and long spears. C. Ex. and buy.**

Adler, Dr. Cyrus, President Dropsie College for Hebrew and Cognate Learning, Philadelphia, Pa.

Affleck, G. B., M. A., M. P. E., 287 Hickory St., Springfield, Mass. **Morph., Ent., Cytol.**

Dist. & variation. Have large amount of fine material for sytological studies of opisthobranch shells for study of variation as related to locality and native habitat. Wish to buy species of so-called *Tethys leporina* Linn.

Agrelius, Frank U. G., A. M., Assoc. Prof. of Biol., Kansas State Teachers Coll., Emporia, Kansas.

Ainslie, Charles N., A. M., Bureau of Ent., U. S. Dept. of Agric., Washington, D. C. Home address 5009 Orleans St., Sioux City, Iowa. **Ent; esp. microphymenoptera.**

Alcock, F. J., Ph. D. Geol. Survey, Ottawa, Ont., Can. **Geol. Min.**

Aldrich, J. M., Assoc. Curator, National Museum, Washington, D. C. **Diptera.**

Aldrich, T. H., 1026 Glen Iris Ave., Birmingham, Ala. **Tertiary Fossils of the U. S. C. Ex.**

Alexander, Charles P., Asst. Prof. Ent., Mass. Agric. Coll., Amherst, Mass. **Tipulidae of the World.** Buy or ex. for exotic material.

Alexander, J. S., Dept. Biol., Univ. of Fla., Gainesville, Fla. **Herpetology.**

Alexander, Prof. W. P., Head of Dept. of Mus. Instruction, Buffalo Soc. Nat. Hist., Buffalo, N. Y. **Problems in teaching in Mus. of Nat. Hist.**

Allan, G. Edward, Bethlehem, Penn., Seeds of Phaeon. Plants, Hort., Cacti, Ferns. C. Ex.

Allard, Harry A., Bur. of Plant Industry, Washington, D. C. Nat. Hist: Stridulations of Orthoptera; Disease of tobacco; Studies in the genetics of tobacco; effect of length of the day on plants.

Allee, Warder Clyde, Assoc. Prof. of Zool., Univ. of Chicago, Chicago, Ill. **Animal Ecology**.

Allen, Arthur A., Ph. D., Prof. Orn., Cornell Univ., Ithaca, N. Y. **Zool., Orn.**

Allen, Charles E., Prof. of Bot., Univ. of Wisc., 2014 Chamberlin Ave., Madison, Wisc.

Allen, Eugene T., Ph. D., Geophysical Lab., Washington, D. C. **Bot.**

Allen, Francis H., 215 La Grange St., West Roxbury, Mass. **Orn.**

Allen, Rev. George E., Plainfield, Mass. **Zool. esp. Birds. Geol. Forestry.**

Allen, Dr. Glover M., 234 Berkeley St., Boston, Mass. **Orn.**

Allen, H. W., Asst. Prof. of Zool. and Ent., Agric. & Mech. College, Miss. **Diptera of the Family Tachinidae. C. Ex. Buy exotic Miltogramminae.**

Allen, W. M., M. S., State Chemist of N. C., Raleigh, N. C.

Alling, Harold L., Asst. Prof. Geol, Univ. of Rochester, N. Y. **Geol.**

Allis, E. W., Adrian, Lenawee Co., Mich. **Ool., Arch., Econ. Ent., Parasites.**

Allman, Druard Nunez, B. Sc., Prof. Hort., National Farm School. Home address Holmsburg, Philadelphia, Pa. **Hort.**

Alphonsus, Brother, Brownson Hall, Notre Dame, Ind. **Birds of Notre Dame.**

Ament, Harry E., 57 State St., Rochester, N. Y. **Min., Butterflies, Indian Relics. C. Ex. Buy.**

Ames, Oaks., Bussey Inst., Jamaica Plain, Mass. **Bot.**

Ami, Henry M., M. A., D. Sc., F. G. S., etc. 435 Laurier Ave. East, Ottawa, Canada. **Geol., Palaeo., Arch.**

Amstutz, N. S., Valparaiso, Ind. **Mic.**

Anders, Stanley C., 1615 De Kalb St., Norristown, Pa. **Ent.**

Anderson, A. J., 1822 W. Palmer Ave., Sioux City, Ia. **Orn., Tax., Ent., Reptiles and Turtles. C. ex. or will mount specimens for exchange.**

Anderson, Dr. Alexander P., Tower View Lab., Red Wing, Minn. **Plants and Plant Products.**

Anderson, Chas. S., "Birdville", 24 Eddywood Ave., Springfield, Mass. **Esp. interested in bird protection of every kind.**

Anderson, Chas. S., 408 S. 14th St., Harrisburg, Pa. **Dipt.,**

Coleopt., Lepid. C. Ex.
Anderson, Edgar, Asst. Prof. Bot., Mo. Botanical Garden,
St. Louis, Mo. **Plant Breeding.**

Anderson, Frank M., Berkeley, Calif. **Geol., Paleobot.**

Anderson, Dr. H. W., Univ. of Ill., Urbana, Ill. **Fungi.**
Phytopathology. C. Ex.

Anderson, J. A., University, Ala. **Eth.**

Anderson, John P., Tower View Lab., Red Wing, Minn.
Algae and Bacteria.

Anderson, J. P., Box 1074, Juneau, Alaska. **Flowering
Plants and Fungi.**

Anderson, Louise A., Tower View Lab., Red Wing, Minn.
Ent. Ex.

Anderson, Mark, Grazing Examiner, Forest Service, Og-
den, Utah. **Ecology.**

Anderson, Mary P., M. A., Dir. Bluebird Camp, East Berk-
shire, Vt. **Bot., Nature Study.**

Anderson, Pearl, Asst. in Zool., Univ. of Md., College
Park, Md. **Genetics, Emb.**

Anderson, Dr. R. M., Victoria Memorial Mus., Ottawa,
Can. **Orn. Mam.**

Anderson, W. S., Prof. Genetics, Ky. Univ., Lexington,
Ky. **Breeding Problems, esp. sterility in domestic
animals.**

Andras, J. C., Manchester, Scott Co., Ill. **Bot. C.**

Andrews, A. LeRoy, Ph. D., Cornell Univ., Ithaca, N. Y.
Bryophytes. Will buy or ex. mosses and hepaticæ.

Andrews, Arthur W., 133 Tyler Ave., Detroit, Mich. **Col-
eopt. C.**

Andrews, Clement W., Librarian, The John Crerar
Library, Chicago, Ill. **Bibliog. of Science.**

Andrews, D. M., Box 493, Boulder, Colo. Introducer of
Western native plants for decorative planting. **Hort.,
Bot.**

Andrews, Ethan Allen, Prof. Zool., Johns Hopkins Univ.,
Baltimore, Md. **Ecology.**

Andrews, Frank Marion, Ph. D., Prof. of Bot., Univ. of
Indiana, Bloomington, Ind.

Andrews, H. J., M. D., 6381 Hollywood Blvd., Hollywood,
Calif. **Gen. Nat. Hist., Palaeo., Arch.**

Andrews, Robert R., M. D. S., A. M., New Brattle Bldg.,
Harvard Sq., Cambridge, Mass. **Histol. ?**

Andrews, Roy Chapman, Assoc. Cur. Mammals of the
Eastern Hemisphere. Leader and Zool. of the Third
Asiatic Expd. Address: Am. Mus. Nat. Hist., New
York City.

Angell, John Watson, 775 Forest Ave., (Bronx), New

York City. Lucanidae, Cicindelidae and Carabidae. Second largest collection in the world. Wants particularly N. A. Lucanidae, also exotic. Dorcus paralus and Lucanus elephas in any quantity. Will ex. or pay cash.

Angle, James L., Butterfly Shop, 349 No. Goodman St., Rochester, N. Y. Butterflies for art work. C. ex. or buy.

Ankeney, Miss Helen, R. F. D. 10, Xenia, Ohio. Orn., Bot. Anthony, E. H., Assoc. Cur. of Mammals of the Western Hemisphere, Am. Mus. Nat. Hist., New York City.

Appleby, William R., Dean and Prof. of Metallurgy, Minn. Sch. of Mines, Univ. of Minn., Minneapolis, Minn. Min., Metall.

Applegate, Elmer I., Klamath Falls, Ore. Bot. C.

Appleton, John Howard, Prof. Chem. Emer., Brown Univ., Providence, R. I.

Arey, Prof. Leslie B., Ph. D., Northwestern Univ., Med. Sch., 2421 So. Dearborn St., Chicago, Ill. Histol., Embry., Expr. Zool.

Argetsinger, Mrs. E. H., 620 S. Hiawatha St., Pipestone, Minn. Butterflies, Moths. C. Ex.

Argo, Virgil, Walla Walla, Wash. Ent. C.

Armand, P. N., Prof. Biol., 312 Griffith Ave., San Mateo, Calif. Ent. C. Ex. Thysanoptera.

Armitage, Lucius, 287 East 162 St., New York City. Bird banding, Hybrid breeding.

Armstrong, Edw. E., 2249 Calumet Ave., Chicago, Ill. Birds of North and Central America. C. Ex. and buy.

Arndt, Dr. Chas. H., Univ. of Penn., Philadelphia, Pa. Plant diseases, Bot.

Arnold, Benjamin Walworth, A. M., Honorary Curator of Orn., Museum of the State of N. Y., 465 State St., Albany, N. Y.

Arnold, Edward, Canadian National Sys., Montreal, Canada. Orn., Col. C. Ex. and buy.

Arnold, Francis J., M. D., 182 Pearl St., Burlington, Vt. Animals, Birds, Trees, Flowers, Snakes. C. Buy.

Arnold, Frederick S., A. B., A. M., B. D., Poughkeepsie, N. Y. Ent., Folk lore, Gypsy lore.

Arras, Louis P., 3751 French Ave., St. Louis, Mo. Ent. C. Ex.

Arthur, Stanley Clisby, 6043 Perrier St., New Orleans, La. Former State Orn. of La. Bird and animal wild life. Will co-operate with all naturalists interested in Louisiana forms.

Arthur, J. C., Purdue Univ., La Fayette, Ind. Bot. C.

Ashby, Geo. E., 207 Pearl St., New York City, N. Y.
Mic., Min.

Ashman, Richard, Asst. in Zool., Rutgers Coll., New Brunswick, N. J. Zool. ?

Atkinson, Geo. F., Prof. Bot., Cornell Univ., Ithaca, N. Y.
Y. Mycology, Morph. and Emb. of plants. C. ?

Atterbury, Rev. Anson P., Ph. D., 580 Park Ave., New York City, N. Y. Arch., Eth.

Attwater, H. P., 2120 Genesee St., Houston, Tex.

Atwell, Charles B., Ph. M., Prof. Bot., 5 Fisk Hall, Northwestern Univ., Evanston, Ill. Plant Ecol., Morph.

Atwood, E. S., Highlands, N. J. Mic.

Atwood, Prof. Wm. A., Head Dept. of Biol, Milwaukee State Normal Sch., Milwaukee, Wisc. Ent., Orn., Vert. Anat.

Averell, Wm. D., "Vineside," 135 West Mount Pleasant Ave., Mount Airy, Philadelphia, Pa. Mollusca, Min.

Avery, Edward C., 114 Marines St., Buffalo, N. Y. Birds, Trees, Flowers. All nature, and Photog.

Avery, Elroy M., Ph. D., LL. D., D. C. L., 2331 Woodhill Rd. S. E., Cleveland, Ohio. Arch., Eth.

Avinoff, Andre, 600 W. 157 St., (Apt. 12) New York City. Ent.

Baatz, C. L., 1511 Akron St., Massillon, Ohio. Arch.

Babbitt, Jas. P., Manufacturer and Dealer in Taxidermists' supplies, 10 Hodges Ave., Taunton, Mass. Tax.

Babcock, Daniel W., Berlin, Worcester Co., Md. Indian Relics, Forestry, Seeds. Ex.

Babcock, E. B., Prof. of Genetics. Univ. of Calif., Berkeley, Calif. Agric., Plant and Animal Breeding. Crepis seeds desired for taxonomical and genetical purposes.

Babcock, Orville G., Asst. Ent., Box 407, Sonora, Texas. (Permanent address—Box 208, Dallas, Tex.) Mallophaga and Anopleura. Insects affecting animals and plants.

Bachmann, Freda M., Ass't. Prof. of Botany, Milwaukee Donner College, Milwaukee, Wisc. Ascomycetes.

Bacon, Brasher Collins, 316 No. Seminary Ave., Madisonville, Ky., Orn., Arch., Nature Photog. C. Ex. buy. Sets of eggs with nests especially desired.

Bade, William Frederic, Ph. D., 2618 College Ave., Berkeley, Calif. Bot., Orn. C. of plants.

Baerg, Wm. J., Prof. of Ent., and Ent. of the Exp. Station, Univ. of Ark., Fayetteville, Ark. Ent. in general. Poisonous Anthropodes; also Birds. C.

Bagg, Aaron C., Parsons Paper Co., Box 167, Holyoke,

Mass.
Bailey, E. H. S., Prof. State Univ. and Dir. Chem. Lab.,
Lawrence, Kans. **Chem.**
Bailey, E. M., Member Am. Min. Soc., Andover, Me.
Min., Geol. C. Ex.
Bailey, Edw. P., A. B., 46 Ash St., Brockton, Mass. **Physics,**
Ent.
Bailey, Mrs. Florence Merriam, 1834 Kalorama Road,
Washington, D. C. **Ornithology.**
Bailey, Harold H., P. O. Box 5, Miami Beach, Fla. **Orn.**
Mamm., Ool. C. Ex.
Bailey, Irving W., Asst. Prof. Forestry, Bussey Institution,
Forest Hills, Mass. **Morph., Ecol., Forestry.**
Bailey, Dr. John W., 4541 University Way, Seattle, Wash.
Mosses. C.
Bailey, John Wendell, Agricultural College, Miss. **Myriapoda.**
C. Ex. buy. Would be glad to receive specimens
from any locality.
Bailey, L. H., Formerly Dir. Coll. of Agric., Cornell Univ.,
Ithaca, N. Y. **Rubus, Prunus, Vitis, Cultivated**
Plants. Nat. History as related to Agric. C. Trav-
eling in Far East.
Bailey, Prof. Loring Woart, LL. D., F. R. S. C., Frederickton,
N. B. **Diatoms, Geol. C. and Ex. Diatoms.**
Bailey, S. Waldo, 64 So. Mountain Rd., Pittsfield, Mass.
Orn., Ent., Lepid., Indian Antiq. ?
Bailey, Prof. S. I., Harvard Observatory, Cambridge, Mass.
Bailey, Vernon, Biol. Surv., Dept. Agric., Washington,
D. C. **Mammals.**
Baillie, James L., Jr., Tech. Asst., Royal Ont. Mus. Zool.,
Toronto, Ont. **Orn., Mam.**
Baily Joshua L., Jr., 4435 Ampudia St., San Diego, Calif.
L. & F. W. Moll.
Baily, Wm. L. S. B., Ardmore, Montgomery Co., Pa. **The**
Study of Birds with a camera, and Bird Protection.
Bain, T. H., 1366 Mahon Ave., Vancouver, B. C., Can. **Ent.?**
Bair, Robert C., York, York Co., Pa. **Min., Arch., Histol. C.**
Baird, A. B., Dominion Entomological Branch, Ottawa,
Ont. **Systematic work on Parasitic Hymenoptera and**
Natural control investigations.
Baitsell, Dr. George A., Asst. Prof. Biol. Yale Station,
New Haven, Conn. **Protozoa, Tissue Culture, Con-**
nnective Tissue.
Baker, A. B., 1767 Lanier Pl. N. W., Washington, D. C.,
Vert. Palaeo., Mam.
Baker, Arthur Challen, B. S. A., Ph. D., Entomologist, U.
S. Bureau of Ent., Washington, D. C. **Insects in-**

jurious to fruits. Aphiidae, Aleyrodidae, Econ. Ent., Syst., and Expr. Zool.

Baker, A. W., Ontario Agr. Coll., Guelph, Can. Mallophaga, Coleop.

Baker, Charles Fuller, A. M., Dean Coll. of Agric., Los Banos, Philipines.

Baker, Charles Henry, Botanical Explorer, Proof Reading and Revision in Nat. Sci., Zellwood, Orange Co., Fla. Bot., Hort., Min., Mic., Geog., Dist., Arch., Orn. Florida Plants, Fungi and Seeds.

Baker, Frank Collins, Cur. Mus. Nat. Hist., Univ. of Ill., Urbana, Ill. Moll., Ecol., Mus. Administration.

Baker, F. D., M. D. Prof. Med. Zool, and Parasitology. Univ. of Neb., Lincoln, Neb. Animal parasites. C. Ex.

Baker, Fred, M. D., Point Loma, Calif. Conchology. C. Ex.

Baker, Fred J., R. 3, Box 208, Oregon City, Ore. Butterflies of Ore. carefully prepared in papers or mounted. Butterfly pictures, trays, etc.

Baker, Horace Burrington, Ph. D., Zool. Lab., Univ. of Penn., Philadelphia, Pa. Mollusca; Animal Dist.

Baker, Hugh P., Forest Engineer, Dobbs Ferry, N. Y.

Baker, J. Willard, 101 Spring St., Pawtucket, R. I. Min. C. Ex.

Baker, Mary Frances, Winter Park, Fla. Fla. flora, esp. grasses and sedges.

Baker, Willis M., Assoc. State Forester of N. J., State Office Bldg., Trenton, N. J. Forestry.

Bakke, Arthur L., Assoc. Prof. Plant Physiol., Iowa State Coll. Ames, Iowa. Ecol., Physiol.

Balch, Francis N., 60 State St., Boston, Mass., or Home, Lincoln, Mass. Mollusca, General Biol. C. of Mollusca (3000 sp.) New England marine Mollusca ex for similar material and literature on same. Only reliable material from known locality desired. Boreal, Arctic and deep-water forms, especially Nudibranchs and Cephalopods, wanted, and to exchange.

Balderston, Lloyd, 1409 Van Buren St., Washington, D. C. Bot.

Baldwin, Herbert B., Chemist to Dept. Public Health, 927 Broad St., Newark, N. J. Chem., Phys. Desire Webb's writings, Grayson's rulings, and other rare and beautiful Mic. slides.

Baldwin, J. Mark, Ph. D., D. Sc., LL. D., For. Corresp. Inst. of France. Psychol., Gen. Biol., Anth. Address, Harris Forbes & Co., 56 William St., New York City.

Baldwin, S. Prentiss, 11025 Boulevard St., Cleveland, Ohio. Bird banding. Invites correspondence.

Balduf, Dr. W. V., Natural History Bldg., Urbana, Ill.
Gen. Ent.

Baldy, Stephen, Catawissa, Pa. Gen. Ent; Lepid. C.
Ball, Carleton R., U. S., Dept. Agric., Washington, D. C.
Cerealist, in charge office of Cereal Investigations.
Agron. Cereals, Bot., Willows Grasses. C. Ex. will
name willows from N. or S. A.

Ball, Elmer D., Ph. D., Dir. of Scientific work, U. S.
Dept. Agric., Washington, D. C. Rhynchota, Hom-
optera. C. Ex.

Ball, Oscar Melville, Ph. D., Prof. of Biol., Agric. and
Mechan., Coll. of Texas, College Station, Tex. Palaeo.
Bot., Plant Physiol.

Ball, Ruth Jane, M. S., Univ. of Vt., Burlington, Vt.

Ball, Stanley C., Ph. D., Curator of Collections, Bishop
Museum, Honolulu, H. I.

Banghart, Joseph, 934 Hollister St., Olney, Ill. Lepid.,
Coleop.

Bangs, Outram, Mus. Camp. Zool., Cambridge, Mass.

Banker, Howard J., Prof. of Biol., Depauw Univ., Green-
castle, Ind. Fungi. ?

Banks, Nathan, Mus. Comp. Zool., Cambridge, Mass.
Neuropt.

Banta, Arthur M., Ph. D., Station for Exper. Evolution,
Cold Spring Harbor, L. I., N. Y. Experimental Zool.
Cladocera, Cave species. C.

Banta, George L. R., 74 Snyder St., Orange, N. J., Min. C.?

Barbeau, C. M., Ethnologist, Victoria Mus., Ottawa, Can.

Barber, Bertram A., Prof. of Biol., Hillsdale Coll., 350
West St., North, Hillsdale, Mich. Zool., Bot. C. buy.

Barber, Geo. W., 10 Court St., Arlington, Mass. Coleopt.
C. Ex. ?

BARBER, H. G., 143 East Third Ave., Roselle, N. J.
Hemiptera-Heteroptera. C. Ex. or buy.

Barber, Herbert S., U. S. Nat. Museum, Washington, D. C.
Coleopt.

Barber, R. T., Wahpeton, N. Dak. Birds and their nests.

Barbour, Erwin H., A. E., Ph. D., Prof. of Geol., and Cur.
of the State Museum, Univ. of Nebraska, Lincoln,
Nebr. Gen. Geol., Min., Palaeo.

Barbour, Dr. Thomas, Assoc. Curator of Herpetology.
Mus. of Comparative Zool., 371 Marlboro St., Boston,
Mass. Reptiles, Amphibians, Fishes.

Bareis, Geo. F., Canal Winchester, Ohio. Anth., Arch.,
Hist.

Baring, Alice M., Assoc. Prof. of Zool., Wellesley Coll.
(On leave for 3 years of Prof. of Biol., Peking Univ.,

Peking, China). **Hemipt., Homoptera.**
Barker, Fred J., 355 Second St., Portland, Ore. **Lepid. C.**
Ex. sell.
Barker, Michael, 440 S. Dearborn St., Chicago, Ill. **Gen. Ent.**
Barlow, Raymond, Danielson, R. F. D. 1, Conn. **Butterflies, Moths and Birds' Eggs. C. Ex.**
Barlow John., R. I. Agric. Coll., Kingston, R. I. **Zool., Ent.**
Barnes, Charles S., 104 West 37th St., Bayonne, N. J.
Birds, Mammals, Reptiles, Amphibians, Fish C. buy.
Barnes, Claude T., 359 10th Ave., Salt Lake City, Utah.
Orn., Mamm.
Barnes, Hon. R. M., Lacon, Ill. **Orn., Ool. C. Ex.**
Barnes, Wm., S. B., M. D., Decatur, Ill. **Lepid. of N. A.**
desired for ex.
Barney, Raymore L., Dir. U. S. Fisheries Biol. Lab., Fairport, Iowa. **Fishes, Mollusca.**
Barnhart, Dr. John Hendley, Bibliographer, New York Botanical Garden, Bronx Park, New York, N. Y. **Bot.**
Barnhart, Percy Spencer, Scripps Inst. for Biol. Research, La Jolla, Calif. **Biol., Col. and pres. of Marine Animals.** Sell marine animals of So. Calif.
Barns, Thomas E., Box 234, Milford, Mass. Small characteristic articles of the various people and classes of the world.
Barrett, Harvey P., 211 Vail Ave., Charlotte, N. Y. **Mic.**
Barrett, James Theophilus, Ph. D., Riverside, Calif. Assoc. Dir. Citrus Experiment Sta. **Bot.: Fungi. C. Ex Parasitic Fungi.**
Barrett, Samuel A., Dir. Public Museum, Milwaukee, Wis. **Arch., Ethnol., Histol.**
Barringer, Daniel M., 1242 Real Estate Trust Bldg., Philadelphia, Pa. **Geol. and M. E., Geol. of ore deposits and min.**
Barrows, Walter B., Prof. Zool. and Geol., East Lansing, Mich. **Zool., Orn., Ent. C.**
Barrows, Wm. Morton, Prof. Zool. and Ent., Ohio State Univ., Columbus, Ohio. **Zool., Ent., Spiders of Ohio and Middle West.**
Barss, Howard Phillips, Prof. Bot. and Plant Pathol., State Coll., Corvallis, Ore. **Plant diseases.**
Bartlett, H. H., Dir. Bot. Garden, Univ. of Mich., Ann Arbor, Mich. **Seeds or living plants of perennials and woody plants for outdoor culture. C. Ex. buy.**
Bartlett, Oscar C., Ph. D. State Entomologist of Ariz., Box 348, Phoenix, Ariz. **Hymenopt. sub family Scoli-**

idea, Econ. Ent.

Bartley, Hastings N., U. S. Ent. Lab., Silver Creek, N. Y. Ent.

Bartholomew, Elam, M. Sc., Ed. and Pub. of "Fungi Columbiana," and "North American Uredinales," Stockton, Kans. Desires to exchange with oologists in all parts of the world.

Bartholomew, Elbert T., Ph. D., Asst. Prof. Bot. Univ. Wis., Madison, Wis. Mycology and plant Physiol. C?

Barton, G. E., M. S., Technical Expert with Whitall Tatum Co., Flint Glass Works, Millville, N. J. Chem., Metal.

Barton, George H., Director Teacher's Sch. of Sci., Boston Soc. Nat. Hist., Boston, Mass. Palaeo., Geol., Min.

Bibliog. C.

Bartsch Prof. Paul, M. S., Ph. D., Smithsonian Inst., Washington, D. C. Moll. Birds, Bot., C. Ex. ?

Bartsch, Rudolph C. B., 46 Guernsey St., Roslindale Sta., Boston, Mass. Lepid., Exp. Catocalae.

Barus, Carl, Ph. D., Prof. Phys., Brown., Providence, R. I. Geol., Phys.

Bascom, Miss F., Ph. D., Geologist, U. S. Geol. Surv., Prof. of Geol., Bryn Mawr Coll., Bryn Mawr, Pa. Geol., Min., Petrog., Palaeo. C. Ex.

Bashore, Harvey B., M. D., West Fairview, Pa. Geol., Arch.

Basinger, A. J., State Insectary, Capitol Park, Sacramento, Calif.

Bass, W. L., Rosalia, Kans. Arch. Buy.

Bassett, C. F., Geol. Dept., Univ. of Ill., Urbana, Ill.

Bassett, Geo. Wm., 1900 Race St., Phila., Pa. Plants of the Pine Barrens of N. J. and Hardy Am. Plants.

Bassett, Mrs. V. H., Savannah, Ga. Orn.

Bassett, The Wm. F., Nurseries, 115 Maple St., Hamilton, N. J. Sell only hardy Am. plants and plants of the N. J. Pine Barrens.

Bassler, Harvey, E. M. Ph. D., Geol. Lab., Johns Hopkins Univ., Baltimore, Md. Carboniferous Plant Fossils. (In Peru).

Bassler, Ray Smith, Cur. of Palaeontology, U. S. Nat. Mus., Washington, D. C. Invert. Palaeo., Stratigraphy.

Batchelder, Charles F., Peterborough, N. H., Orn., Mam.

Bates, Albert C., 320 Roseville Ave., Newark, N. J. All varieties of Quarts and Gem Stones.

Bates, Amy L., Asst. to Curator, Park Museum, Providence, R. I. Bot.

Bates, Carlos G., Forest Service, Colorado Springs, Colo. Forestry, Ecology.

Bates, D. Marston Bates, Ft. Lauderdale, Fla. Lepid.: esp. Saturniidae. C. Ex. and buy.

Bates, George A., M. Sc., D. M. D., 305 Central St., Auburndale, Mass. Prof. Histol. and Embryology at Tufts Coll. Med. School, Boston, Mass. **Histol.**

Bates, Rev. J. M., A. M., Red Cloud, Nebr. **Bot., Orn.** C. of 12,000 Sheets. Ex.

Bauer, L. A., M. A., Ph. D., D. Sc., Dir. Dept. of Terrestrial Magnetism, Carnegie Inst., of Washington, D. C.

Baumann, Henry G., 469 William St., Buffalo, N. Y. **Butterflies.** C.

Baumgartner, Wm. J., Assoc. Prof. of Zool., Univ. of Kansas, Lawrence, Kans. **Spermatogenesis of Insects.**

Bausch, Edward, Bausch & Lomb Optical Co., Rochester, N. Y. **Mic. and Photog.**

Bausch, J. J., Bausch & Lomb Optical, Rochester, N. Y. **Mic.**

Baxter, Fred., M. D., Point Loma, Calif. **Conch.** C. Ex.

Baxter, Milton S., 46 Bly St., Rochester, N. Y. **Phaen. and Crypt. Plants, Ferns.** C. Ex.

Baylev, Henry, 4328 Rupert St., Vancouver, B. C., Can. Ent. ?

Bayley, Wm. S., Ph. D., Prof. of Geol., Univ. of Ill., Urbana, Ill. **Geol., Min., Lithol.**

Baylis, E., 5011 Saul St., Frankfort Phila., Pa. Ent.

Baynard, Oscar E., Plant City, Fla. **Orn.**

Baynes, Ernest Harold, Meriden, N. H. Writer and lecturer on Am. birds and mammals. Member of many bird and mammal societies. Desires the co-operation of all scientists, nature lovers and humanitarians who are interested in the progress of scientific medicine.

Beach, W. S., Penn. State Coll. Research Lab., Bustleton, Phila., Pa. **Diseases of veg. crops.**

Beadle, C. D., Biltmore, N. C. **Botany of the So. Atlantic and Gulf States.**

Beal, J. N., Agricultural & Mechanical Coll., Miss. **Bot.**

Beal, Wm. J., 2929 Broadway, New York City. **Bryophytes of N. A.**, C. Ex. sell slides and photos.

Beal, Wm. J., Ph. D., D. Sc., Amherst, Mass. Emeritus Prof. of Bot., Mich. Agric. Coll. **Grasses.**

Bean, Barton A., Dir. of Fishes, Smithsonian, Washington, D. C. **Ichthy.**

Bean, Ralph Carleton, 48 Emerson St., Wakefield, Mass. **Phaen. Bot.**

Bean, Thos. E., P. O. Box 441, Galena, Ill. **Nearctic and Palaearctic Butterflies.** C. will buy N. A. Butterflies and Noctuidae.

Beardslee, Henry C., Perry, Ohio. **Mycol.** Specializing in **Fleshy fungi.** C. Ex.

Bearss, Esther, R. D. 1, Box 489, Tampa, Fla. Zool. and Biol. in general.

Beater, Jack, Florida Fish Farm, Ft. Myers, Fla. Tropical fish, Reptiles, Air Plants. C. Ex. buy.

Beaudry, J. A. U., Civil Eng., 58 St. James St., Montreal, Can. Geol., Min., Ent. C.

Beaulne, Jos. I., 935 Dickson St., Montreal, Can. Coleopt. in general (Carabidae) Will identify native species.

Beaupre, Edw., 266 Princess St., Kingston, Ont., Can. Bot. Orn.

Beck, Herbert H., Prof. Chem., Franklin and Marshall Coll., Lancaster, Penn. Orn., Min., Geol., Man.

Becker, Geo. H., State Plant Board, Little Rock, Ark. Ent., Bot., Orn.

Becking, Boaz, Stanford Univ., Calif.

Beckley, Anna, 5029 West Third St., Los Angeles, Calif. Orn.

Beckley, Mrs. H. G., Box 288 A, Palms, Calif. Birds.

Beckner, Lucien, Winchester, Ky. Geol.

Beckwith, Miss Florence, 31 Arlington St., Rochester, N. Y. Bot.

Beebe, Wm., Home Address: New York Zool. Park, New York, N. Y. Field Address: Tropical Research Station, Georgetown, British Guiana. Zool.

Beer, Emil, 4117 West 24th Place, Chicago, Ill. Ent. ?

Belding, David Lawrence, Hingham, Mass. Moll., Fishes.

Beldt, O. C., 2140 Edmund Ave., Pine Lawn P. O., St. Louis, Mo. Breeder and fancier of tropical fishes. C. Ex. buy.

Bell, Chas. N., LL. D., F. R. G. G., 121 Carleton St, Winnipeg, Man., Can. Arch., Palaeo. C. ?

Bell, Ernest L., 438 Amity St., Flushing, L. I., N. Y. Lepid. Esp. Hesperiidae. C. Ex.

Bell, Garnet S., 406 C. P. R. Bldg., Toronto, Ont., Can. Fungi.

Bell, Walter A., Ph. D., F. G. S. A., 209 Willrod St., Ottawa, Ont., Can. Palaeo; particularly of the carboniferous periods.

Beller, Jack, Nature Guide, 810 East 5th St., Los Angeles, Calif Butter, aberrations. C. Ex. wish to buy.

Bellows, Dr. Howard P., 220 Clarendon St., Boston, Mass. Conch.

Benedict, A. L., A. M., M. D., 377 Elmwood Ave., Buffalo, N. Y. Am. Arch. C. Ex.

Benedict, Harris M., Ph. D., 5946 Belmont Ave., Univ. of Cin., Cincinnati, Ohio. Bot., Plant Physiol., Senility in Plants.

Benedict, James Everard, Ph. D., Chief of Exhibits, Biol.

U. S. Nat. Mus., Washington, D. C. **Crustacea, Vermes.**

Benedict, Ralph C., Ph. D., 322 E. 19th St., Brooklyn, N. Y. **Ferns.**

Benedict, Ruth, Silver Springs, Md. **Seed tester.**

Benedict, Warwick, Box 541, Route 1, Santa Monica, Calif. **Coleopt. C. Ex.**

Bengston, Prof. N. A., Dept. of Geography & Geology. Univ. of Nebraska, Lincoln, Nebr.

Benjamin, Foster H., B. S., M. A., 500 W. Main St., Decatur, Ill. Cur. and Colab. Barnes Collection. Asst. Ent. Miss. Ent., Lepid., Identify & Ex.

Benjamine, Elbert, Inst. in Nat. Hist., P. O. Box 1525, Los Angeles, Calif. All branches of Nat. Hist.

Benedict, James E., Jr., Seed Analyst, 946 Penn. Ave., N. W. Washington, D. C. Bot incidentally all Nat. Science. C. Ex.

Bennehoff, Jas. D., Alfred, N. Y. Mic. C. Palaeo.

Benner, Walter M., Telford, Pa. Zool., Bot. C. Ex. Bot.

Bennett, Rev. George, Dir. Am. Sch. of Wild Life Protection, Iowa City, Iowa. All forms of outdoor life, esp. birds. Buy photos and lantern slides.

Bennett, J. M., 1103 Real Estate Exchange Bldg., Detroit, Mich. Insects affecting shade and ornamental trees and shrubs.

Bensley, Prof. B. A., Royal Ontario Mus., Toronto, Ont., Can.

Bent, Arthur Cleveland, Taunton, Mass. **Orn. C.** Birds and Eggs.

Bentley, Prof. Gordon Mansir, B. S. 'OO and A. M. Cornell Univ., 406 Morrill Hall, Univ. of Tenn., Knoxville, Tenn. State Ent. of Tenn. Also Prof. Ent., Univ. of Tenn. **Histology and Ent.**

Bentley, Wm. B., of Chem., Ohio Univ., 42 Morris Ave., Athens, Ohio. **Chem.**

Bequaert, Joseph C., School of Tropical Medicine, Harvard Medical School, Boston, Mass. **Diptera, Hymenopt.** C. Ex.

Berclare, Rev. E. F., Georgetown, Ky. **Biol.**

Bergen, Mrs. Fanny D., 47 Raymond St., No. Cambridge, Mass. Folk-Medicine, Amer. Folk-Lore and Common Amer. Plant-names.

Berger, Edward William, Ph. D., Univ. of Fla., and State Plant Board, Gainsville, Fla. **Ent.**

Bergholtz, Herman, Electric Engineer, Ithaca, N. Y. **Bot. Phys., Elect., Anat., Eth.**

Bergman, Herbert F., Univ. of Minn., Minneapolis, Minn.

Ecol.?

Bergtold, Dr. W. H., 1159 Race St., Denver, Colo. **Orn.** C. Berginer, Geo. M., 501 Federal St., Camden, N. J. **Bot., Chem., Mic. C.**

Berly, J. A., Alemson College, S. C. **Coccidae.**

Beroes, H. M., 1st Nat. Bank Bldg., Milwaukee Wis. **Lepid.**

Berry, Edw. W., Prof. Palaeo., Johns Hopkins Univ., Baltimore, Md. **Palaeo., Historical Geol.**

Berry, Samuel Stillman, Ph. D., 745 W. Highland Ave., Redlands, Calif. **Cephalopods and Chitons.** C. of both and other Mollusca. Ex. **Habits of Pronghorn and Am. Beaver. Light production in animals.**

Bertram, Dr. Edward E., 811 Hollingsworth Bldg., Los Angeles, Calif.

Bertram, P. E., Taxidermist, North Crystal Lake, Ill. **Orn. Man.** C. Ex. or sell.

Berkey, Charles P., Ph. D., Prof. in Columbia Univ., New York N. Y. **Geol., Min., Petrology, Palaeo.**

Bessey, Ernest A., Ph. D., Prof. of Bot., Mich. Agric. College, East Lansing, Mich. **Plant Pathology.**

Bethel, Ellsworth, M. A., State Museum, Dir. Nat. Hist., Pathologist U. S. Dept of Agric., Denver, Colo. **Fungi Myxomycetes.** C. Ex.

Bethune, Rev. Prof. C. J. S. Washington Ave., Toronto, Ont., Can. **Ent.**

Betten, Cornelius, Ph. D. 3 The Circle, Ithaca, N. Y. **Ent. C. Ex.**

Beutenmuller, Wm., Box 258, Highwood, N. J. **Gall insects, Coleopt., Lepid., Forest Insects.**

Bewley, Miss Anna K., Forest Grove, Bucks Co., Pa. **Bot., Orn.**

Beyer, A. H., Asst. Ent. Fla. Agric. Exp. Sta., Gainesville, Fla. **Jassids, Aphids, Entomogenous fungi.**

Bibbins, Arthur Barnveld, Dir. Lee Oil Survey, 201 Park Ave., Baltimore, Md. Res. 2600 Md. Ave., Baltimore, Md. **Stratigraphy and Palaeo. of the Atlantic Coastal Plain. Maryland minerals, rocks and fossils. Nat. Hist. of Petroleum.** Samples, carefully labelled, of crude oil, lately from wells exchanged. Eastern and mid-continent.

Bickford, Robert F., Lapidary, Norway, Me. **Rough gem material, cut gems. Min. C. Ex. buy and sell.**

Bicknell, Eugene P., Hewlett, L. I., N. Y. **Orn., Bot. C. ?**

Biedermann, C. R., Garces, Cochise Co., Ariz. **Ent.**

Bien, Morris, Asst. Comm. U. S. Reclamation Service, Washington, D. C.

Biersach, Adolf, R. P., 1219 2nd St., Milwaukee, Wisc. **Orn.**

Herpet., Conservator of Wild Life.
Bigelow, Edward Fuller, A. M., Ph. D., Arcadia, Sound Beach, Conn. President of the Agassiz Association, Managing Editor "The Guide to Nature." Lecturer on Nature Education and Recreation. Specialist in Schools and Camps for Girls. *Ast., Bot., Mic., Ent., Zool.* C. Ex.

Bigelow, N. K., B. Sc., Asst. Biol., Royal Ont. Mus. of Zool. Bloor St., and Ave. Road, Toronto, Ont., Can. *F. W. Plankton and Syst. Ent. (Dipt., Hymen., Coleopt.)* C. Ex.

Bigelow, Robert Payne, Ph. D., Prof. Zool., Mass. Inst. of Tech., Cambridge, Mass. *Morph., Parasitology, Ichth.*

Bigelow, Willard Dell, Nat. Canners Assoc., Washington, D. C. *Food Chem.*

Bigney, Andrew J., D. Sc., Evansville, Ind. *Biol., Geol.* Bilgram, Hugo, 1235 Spring Garden St., Philadelphia, Pa. *Myxomycetes.* Ex.

Bill, Dr. Jose Penteado, 144 Commonwealth Ave., Boston, Mass. *Bot.*

Billings, Miss Elizabeth, Woodstock, Vt., *Ferns, Mosses, Plants.*

Billings, Frederick H., Prof. of Bacteriology, Univ. of Kansas, Lawrence, Kans. *Bacteriology.*

Bilsing, S. W., College Station, Texas. *Cerambycidae Orthoptera.*

Bingham, W., Prof. of Physchology, and Dir. Div. Co-Op. Research, Carnegie Inst. of Tech., Pittsburgh, Pa.

Bioletti, Frederic T., M. S., Prof. of Viticulture, Univ. of Calif., Berkeley, Calif. *Bot., Plant Path. Zymology.*

Birge, Edward A., Pres. Univ. Wis., Madison, Wisc. *Limnologv.*

Bird, Henry, Lepidopterist and Consulting Entomologist, Rye, West Atlanta, N. Y. *Lepid.*

Birkman, Rev. Gotthilf. Lexington, Lee Co., Tex. *Hymenopt., Aculeata.*

Bisby, Guy, Colloge of Agric., Winnepeg, Can. *Rusts.*

Bishop, F. C., Bureau of Ent., U. S. Dept. of Agric., P. O. Box 208, Dallas, Tex. *Med. & Vet. Ent. Sytsematic Work on Ixodidea (Ticks) Biol. & Econ. Work on insects affecting live stock and game, animals and birds.*

Bishop, Louis B., M. D., 356 Orange St., New Haven, Conn. *Orn., Ool.* C. Ex. ?

Bishop, S. C., Zoologist, N. Y. State Musuem, Albany, N. Y. *Arachnids, Reptiles, Patriachians.*

Bissantz, Edgar R. F., 803 So. Lawrence Ave., Wichita,

Kans. **Morpho, Papilio, Exot. Lepid. C. Ex.** ?
Bissell, C. H., Southington, Conn. **Phaen. Bot., Ferns. C. Ex.**
Bissell, Malcolm H., Assoc. in Geol., Bryn Mawr Coll., Helmstead Road, Stafford, Pa. **Birds, Animals, Trees, Flowers, Esp. conservation of forests and wild life of all sorts.**
Black, Dr. George F., Public Library, New York, N. Y. **Geol., Min., Gypsies. C.**
Blackburn, Chas. V., 7 Emerson St., Stoneham, Mass. **Pin Label Printer. Lepid. of Eastern Mass.** Esp. wants Lycaenidae and Hesperiidae.
Blackburn, Mrs. W. D., 314 East Penn St., Bedford, Pa. **Stamps. Min., Fossils, Indian relics. C. Ex.**
Blackman, Maulsby Willett, Prof. Entomology, N. Y. State College of Forestry, Syracuse, N. Y. Forest esp. wood-boring insects. **Buprestidae, Cerambycidae. C.**
Blackmore, E. H., P. O. Staff, P. O. Div., Victoria, B. C. **Ent., Geometrids.**
Blackwelder, Eliot, Prof. of Geology, Stanford Univ., Calif. **Geol., Ecology.**
Blain, Alexander W., M. D., 2201 Jefferson Ave. E., Detroit, Mich. **Orn. C. of Birds and Eggs.**
Blain, Walter L., 713 West Iowa St., Urbana, Ill. **Bot. C. Ex.**
Blake, J. Henry, Lecturer, Zool. Artist, 81 College Ave., West Somerville, Mass. **Cetac., Moll. C. Ex.**
Blake, Sidney, Asst. Bot., Bureau Plant Industry, Washington, D. C., **Phaen. Bot. C.**
Blakeslee, Albert Francis, Ph. D., Carnegie Station, Cold Spring Harbor, N. Y. **Bot., Trees, Moulds, Datura.**
Blanchard, Frank N., M. D. Inst. in Zool., Univ. of Mich. Ann Arbor, Mich. **Snakes, particularly from N. Am.**
Blanchard, Frieda Cobb, Botanical Garden, Univ. of Mich. Ann Arbor, Mich.
Blanchard, Ralph Arthur, U. S. Ent. Laboratory, Webster Groves, Mo. **Ent., Orn., Bot., Geol.**
Blanchard, R. W., 1921 Van Buren Rd., E. Cleveland, Ohio **Bot.**
Blaney, Dwight, 82 Mt. Vernon St., Boston, Mass. **N. E. Marine Moll.**
Blasdale, Prof. W. C., Dept. of Chemistry, Univ. of Calif., Berkeley, Calif. **Mycol.**
Blashford, Wm. H., 380 Ontario St., Toronto, Ont. **Bot. ?**
Blatchley, W. S., 1558 Park Ave., Indianapolis, Ind. **Orthopt., Coleopt. of Ind. & Fla., Heteroptera of E. U. S. For sale. C. Ex.**

Bleile, A. M., Prof. Physiol., Ohio State Univ., Columbus, Ohio. **Gen. Biol.**

Blincoe, Ben. J., Route 13, Dayton, Ohio. **Orn., Ool.**

Bliss, Charles F., Forest Service, Denver, Colo. **Ecology.**

Blizzard, A. W., Ph. D., Asst. Prof., New York Univ., University Heights, N. Y. City. **Cellular Biol.**

Blocher, John M., Ph. D., Cur. Mus., Baldwin-Wallace Coll., Berea, Ohio. **Geol., Biol.** C. of moths, butterflies, fossils, shells.

Blochman, Lucian A., 3260 First St., San Diego, Calif. **Min. C.**

Blodgett, Frederick H., College Station, Texas. **Plant Pathol.**

Blomquist, H. L., Prof. of Bot., Trinity Coll., Durham, N. C. **Bryophytes, Ferns.** C. Ex.

Blume, Clara, R. R. 6, Denison, Iowa. **Wild plants.** Would like to ex. or buy specimens or seeds of wild flowers; also, would like to know experiences of others in establishing sanctuaries.

Blumenthal, Maurice, 558 Quincy St., Brooklyn, N. Y. **Minerals, Fossils, Gem Stones.** Ex. min. and fossils.

Blumenthal, Samuel J., M. D., 311 Hewes St., Brooklyn, N. Y. **Min., Fossils, Mic.** Ex. or buy.

Blumenthal, Dr. Wm., 311 Hewes St., Brooklyn, N. Y. **Rare Min., Fossils.** Buy or Ex. ?

Bock, Geo. W., M. D., 3456 Shenandoah St., St. Louis, Mo. **Dytiscidae, Heliphidae, Eryividiae, Hydrophilidae.** C. Ex.

Bodine, Joseph H., Zool. Lab., Univ of Penn., Philadelphia, Pa. **Biol.**

Boeshore, Irwin, Univ. of Pa., Philadelphia, Pa. **Bot.**

Boerker, R. H., Forest Service, Lander, W. Va. **Forest Ecol.**

Bogert, Prof. Dr. Marston Taylor, Columbia Univ., New York, N. Y. **Orn., Ool., C. of Ool.**

Bolley, H. L., M. S., Bot. Gar. Expr. Sta. for N. Dak., Dean Biol., State Agric. Coll., Fargo, N. Dak. **Plant diseases and Soil Biology.**

Bolster, Percy G., A. M., 217 Norfolk St., Dorchester Center Mass. **Coleopt.** C. Ex.

Bolt, Benj. F., 1421 Prospect Ave., Kansas City, Mo. **Orn. Man.** C. Ex. and buy.

Bomhard, Miriam, Biology Hall, Univ. of Pittsburgh, Pittsburgh, Pa.

Bonderman, Donald O., 150 S. Burdick St., Kalamazoo, Mich. **Prehistoric Indian Relics** bought, sold or exchanged. Collects firearms, weapons, armor and

curios. Would like to hear from those having Indian Relics, or will purchase entire collections.

Bondurant, Dr. E. D., Mobile, Ala. Histol., Pathol., Mic. C.?

Boniface, Jos. F. R., 13 Park Pl., Morristown, N. J. Min.

Bonney, W. P., Sec. and Cur. Ferry Mus., Tacoma, Wash. Fossil and Indian Curios. Flint spears and arrow points for sale.

Bonney, Wilson, East Summer, Me. Gem. Cutter, Gems and Min. C. Ex. buy and sell.

Bonniwell, J. G., Architect, Box 144, Bradenton, Fla. Lepid.

Bonniwell, Mrs. Nancy C., Box 144, Bradenton, Fla. Lepid.

Bonns, W. W., Assist. Prof. Pomology, Citrus Exp. Sta., Riverside, Calif.

Booth, E. J., 1115 Dupont St., Bellingham, Wash. Orn., Ool., Ent. C. Ex.

Borden, Lydia Pritchett, 652 N. New St., Bethlehem, Pa. 6041 Columbia Ave., Philadelphia, Pa. Biological Sciences.

Borrmann, Dr. O. M., 516 Shaw Ave., McKeesport, Pa. Tropical fish and aquarium supplies.

Bosch, Dr. Hermann, 25 E. 65th St., New York City. Lepid., Catocala.

Bostwick, Arthur Elmore, Ph. D., Librarian St. Louis Public Library, St. Louis, Mo. Physical Science.

Boughton, F. S., Pittsfield, N. Y., Butterflies, Moths, Plants, Mushrooms.

Boulton, Rudyerd, Beaver, Pa., and Dept. of Zool., Univ. of Pittsburgh, Pittsburgh, Pa. Orn., Ecol., Central Am. Birds.

Bourne, Arthur J., Asst. Research Prof. of Ent., Mass. Agric. Expr. Sta., 12 E. Pleasant St., Amherst, Mass. Econ. Ent.

Boving, Adams G., Ph. D., U. S. Nat. Museum, Washington, D. C. Coleopterous Larvae, Insect Morph.

Bowdish, B. S., Demarest, N. J. Birds, their nests and eggs. C. Ex.

Bowditch, Harold, M. D., 44 Harvard Ave., Brooklin, Mass. Orn.

Bowe, Martin, 27 Gladstone St., Providence, R. I. R. I. Beetles, Mic., Min.

Bowen, Robert Hall, Asst. Prof. of Zool., Dept. of Zool., Columbia Univ., New York, N. Y.

Bowen, Robert H., 330 Summit Ave., Mt. Vernon, N. Y. Biol.

Bowen, Ward C. Dept. Visual Instruction, Education

Bldg., Albany, N. Y.

Bower, H. M., 374 Wauwatosa Ave., Wauwatosa, Wis.
Micro. Lepid. of U. S. & Can. C. Ex.

Bowers, H. L., 31 No. Eastfield Ave., Trenton, N. J.
Lepid., C. Ex.

Bowie, William, Chief, Div. of Geodesey, U. S. Coast and
Geodetic Survey, Washington, D. C. Geodesey, esp.
figures of the earth, primary triangulation, precise
levelling, gravity and isostasy.

Bowles, Oliver, Supt. Non-metallic Minerals Expr. Station,
Bureau of Mines, Rutgers Coll., New Brunswick, N. J.

Bowman, Chas. S., 121 Hornell St., Hornell, N. Y. Min.,
Fossils, Canoes, Indian Relics, Curios. C. Ex.

Bowman, James H., Prof. Chem., Western Univ., London,
Ont., Can. Bot., Mic., Crystallization.

Bowman, Kenneth, 9917 113th St., Edmonton, Alta., Can.
Ent.

Bowman, Paul W., 901 Bertram Ave., Collingdale, Pa.
Bot., Orn.

Browncker, John A., State Geologist of Ohio, Prof. Geol.
Ohio State Univ., Columbus, Ohio. Geol. C. Ex.

Boyce, Thos. E., Middlebury, Vt. Bot. ?

Boyd, F. W., Box 1094, Billings, Mont. Orthoptera.

Boyd, Wm. M., 107 Main St., Warren, Ohio. Arch.

Boyer, Carl, Wagner Free Institute of Science, Philadelphia, Pa.

Boyer, Charles S., A. M., 6140 Columbia Ave., Philadelphia, Pa. Diatomaceae. C. Ex.

Boyles, Allan K., Salina, Kans. Tax. Mounted and modelled nests of insects.

Bradley, James Chester, M. S., Ph. D., Cornell Univ., Ithaca, N. Y. Prof. of Ent. and Cur. Invert. Zool., Cornell Univ. Hymenoptera of World.

Bradley, Wilmot H., Geologist, U. S. Geol. Sur., Washington, D. C.

Bradshaw, Fred, Game Comm., Regina, Sask. Can. Nat. Hist. Specimens. Cur. Provincial Nat. Hist. Mus.

Bragg, L. C., 818 Remington St., Fort Collins, Colo. Ophididae. C. Ex.

Bragg, Laura M., Dir. Charleston Museum, Charleston, S. C. Nature Studv.

Brainard Ezra, Pres. Emeritus, Middlebury Coll., Middlebury, Pt. Bot. C.

Brandegee, T. S., Univ. of Calif., Berkeley, Calif. Bot.

Branner, John C. Ph. D., Pres. Emer., formerly Prof. of Geol., Leland Stanford, Jr. Univ., Stanford Univ., Calif. Geol. ?

Branson, Edwin Bayer, 301 Glenwood Ave., Columbia, Mo. Prof. of Geol., Univ. of Mo. Geol. and Palaeo. C. of geological books to ex. for books on Palaeo-ichthyology.

Brasher, Rex, Bird Painter, Kent, Conn. Orn., Trees.

Braun, Annette F., Ph. D., 2702 May St., Cincinnati, Ohio. Mic. C. Ex. Lepid.

Braun, E. Lucy, Univ. of Cincinnati, Cincinnati, Ohio. Bot. (Syts. and Ecology) C. Ex.

Braun, W., 39 Greenmanville Ave., Mystic, Conn. Lepid.

Braunton, Ernest, 6410 Elgin St., Los Angeles, Calif. Hort., Bot.

Bray, Prof. A. W. L., Zool. Lab., Harvard Univ., Cambridge, Mass. Zool., Protozoa.

Bray, Miss H. G., Research Asst., Dept. Geol., Columbia Univ., New York, N. Y.

Bray, Wm. L., Prof. of Bot., Syracuse Univ., Syracuse, N. Y. Bot., Ecology.

Braza, Joseph A., 308 National Ave., East Las Legas, N. Mex. Mic., Zool., Tax. C. Ex.

Breckenridge, Prof. Lester P., "The Brackens," No. Ferrisburg, Vt. Ferns, Orchids.

Breder, Charles M., Jr., Aquarist, N. Y. Aquarium, New York, N. Y. Vert., Zool., Ichth.

Breed, Robert S., Bacteriologist, N. Y. Agric. Exp. Sta., Geneva, N. Y.

Breen, Mary, Dir. Marine Invertebrates, Smithsonian, Washington, D. C. Marine Invert.

Brehme, Herman H., Box 432, South Amboy, N. J. Econ. Ent. Interested in all orders of insects. C. Ex. buy or sell. Life history material of all orders.

Breitenbecker, F., 425 East 144 St., New York, N. Y. Ent. C.

Breitenbecher, J. K., Asst. Prof. Biol., Western Reserve College, Cleveland, Ohio. Biol., Ecol.

Brenckle, J. F., M. D., Northville, S. Dak. Fungi. C. Ex.

Brettnall, G. H., Prof. Biol., State Normal Sch., 512 S. 14th St., La Crosse, Wisc. Ecol. ?

Bridge, Josiah, A. B., S. M., Assoc. Prof. of Geol., Mo. School of Mines, 1005 Park St., Rolla, Mo. Palaeo.

Briggs, C. E., Lisbon, Iowa. Col. of Min., Shells, Fossils, Indian Relics, Gem Stones. Especially interested in Polished Min., Semi Precious Stones. I have for sale or exchange the Johnson County, Iowa fossil corals. The finest in the world are found in this locality. These Devonian age corals are true marble, when cut and polished to show character and growth,

make very handsome specimens. I am in position to supply Museums and Colleges with these corals, natural or polished, and want Crystal, Gem Stones and Coins.

Briggs, George Edwin, Editor, Peekskill, Westchester Co., N. Y. **Phaen.** Bot. C.

Brigham, A. P., Prof. Geol., Colgate Univ., Hamilton, N. Y. **Geol., Anthropology.** ?

Brigham, Edward Morris, Cur. Mus. Nat. Hist., B. C. P. Schools, 25 E. Van Buren St., Battle Creek. Mich. **Anth., and all branches Nat. Hist.**

Brimley, C. S., Div. Ent., U. S. Dept. Agric., Raleigh, N. C., Ent.

Brimley, H. H., Cur. State Museum, Raleigh, N. C.

Brimley, J. F., Wellington, Ont., Can., Coleopt., Hemipt., C. Ex. or sell.

Bringhurst, Wm., M. D., Mem. Acad. Nat. Sci., 2321 N. 17th St., Philadelphia, Pa. Bot., Geol., Min., Lithol., Zool., Biol., Arch., Eth., Orn., Ent., C. Ex.

Brink, R. A., D. Sc., Asst. Prof. of Genetics, Univ. of Wis., Madison, Wisc., Heredity in Plants, Physiol. of pollen.

Brinkman, Alfred H., Craigmyle, Alta., Can. Hepatica and Mosses, Grasses. C. Ex.

Bristol, Charles L., Ph. D., Prof. of Biol., New York Univ., University Heights, New York, N. Y.

Bristol, Maurice L., 511 May St., Elgin, Ill. Lepid., Coleopt. C. Ex.

Brittain, Wm. Harold, Prof. Ent., Agric. Coll., Truro, N. S., Can. Econ. Ent., Fruit insects.

Britton, Elizabeth C., Torrey Bot. Club, New York Bot. Garden, Bronx Park, New York, N. Y. **West Indian Mosses.**

Britton, Prof. N. L., Dir. in Chief, N. Y. Botanical Garden, Bronx Park, New York, N. Y. Biol., Bot.

Britton, Wilton E., State Ent., Conn. Agric. Exp. Sta., New Haven, Conn., Econ. Ent., Aleyrodidae, Scale Insects. C. Ex.

Broadhurst, Jean, Columbia Univ., Morningside Heights, New York, N. Y. Bacteriology, Bot.

Broadwell, Wm. H., 571 Hawthorne Ave., Newark, N. J. Lepid.: Geometridae C. Ex. or sell Min. Geometridae.

Brock, Clarence L., Dir. Houston Municipal Zool. Gardens, Box 1492, Houston, Texas. Birds, Mammals, Reptiles, Gen. Nat. Hist. C. Ex. and buy.

Brockman, Dr. D. C., Ottumwa, Ia. Arch.

Brockway, Arthur W., Hadlyme, Conn. Orn., Ool. C. Ex.

Brode, Howard S., Ph. D., Prof. of Biol, Whitman Coll.
Walla Walla, Wash. Animal behavior.

Bromley, Prof. S. W., Mass. Agric. Coll., Amherst, Mass.
Ent.

Bronson, Barnard S., Prof. Chem., State Teachers Coll.,
Albany, N. Y. Orn., Ent.

Brooking, A. M., Correspondence Sch. of Tax., 426 E. 7th
St., Hastings, Nebr. Mounted Spec., Indian Relics,
Museum Material. C. Ex. and buy. (Has largest
private museum west of Miss. River).

Brooks, Alfred Hulse, Chief Alaskan Geologist, U. S. Geol.
Survey, Washington, D. C. Geol., Geography.

Brooks, Allan C., Okanagan Landing, B. C., Can., Orn.

Brooks, Alonzo B., Chief Game Protector of W. Va., Bu-
chanan, W. Va. Mam., Bot., Forestry.

Brooks, G. Shirley, Transcona, Man., Can. Ent. C. Ex.

Brooks, Laurence, 215 Hawthorne St., New Bedford, Mass.
Ool., Orn., C. of Oology. Ex.

Brooks, Miss Margaret W., 60 Ocean Ave., Salem, Mass.
Con., Ent., Orn.

Brower, Auburn E., Willard, Mo. Lepid.

Brower, W. J., Fellow in Ent., Okla. A. & M. College,
Dept. of Ent., Stillwater, Okla. Scarabaeidae and
other Coleoptera. C.

Brown, A. D., Pipestone, Minn. Tax., Ool.

Brown, A. J., Sulphur City, Ark. Con. C. Wish to ex. L.
and F. W. shells for any not in my collection.

Brown, Barnum, Am. Mus. Nat. Hist., New York City.
(At present in Greece). Palaeo.

Brown, C. Emerson, Dir. Zool. Gardens, Philadelphia, Pa.

Brown, Calvin S., University P. O., Miss. Geol., Am. Arch.
Offers in ex. petrified wood, Indian relics. Wanted
in ex: Indian relics, early art brass and copper.

Brown, Charles, Univ. of Nevada, Reno, Nev. Inst. in
Biology.

Brown, Charles E., Chief, State Hist. Mus., Madison, Wis.
Anthrop., History. C. Ex. or buy for Museum.

Brown, Charles Lee Roy, M. A., Univ. of Nev., Reno,
Nev. Building up the Univ. Mus. C. Ex. and buy.

Brown, Prof. Charles W., Brown Univ., Providence, R. I.
Geol.

Brown, E. A., Pipestone, Minn. Birds eggs, curios.

Brown, Edmund P., 48 Union St., Belfast, Me. Orn.

Brown, Frederick Martin, Asst. Supt. Camping Comm.
of Palisades, Interstate Park, Iona Island, N. Y.
N. & S. Am. Pieridae, esp. Eurytmae. C. Ex. and buv.

Brown, H. Clark, 138 Harrison St., De Kalb, Ill. Naturalist

and Interpreter of Indian Life. Would exchange mounted plants of the prairies with foreign collectors. Indian curios of the old days. Esp. interested in literature of the plains and prairie Indians. Want photos of notable Indians and showing good Indian poses.

Brown, Herbert, Cur. Museum, Univ. of Arizona, Tucson, Ariz.

Brown, Nathan Clifford, Fellow Amer. Orn. Union, 218 Middle St., Portland, Me. *Orn.*

Brown, Nelson Courtlandt, Prof. of Forest Utilization, N. Y. State Coll. of Forestry, Syracuse, N. Y. *Forestry and Game. C. of Woods.*

Brown, Otway H., Cape May, N. J. *Bot. C. Ex.*

Brown, P. E., 543 Bessemer Ave., Cleveland, Ohio. *Local Lepid.*

Brown, Philip King, M. D., 909 Hyde St., San Francisco, Calif. *Ent., Parasites.*

Brown, Robert M., R. I. College of Education, Providence, R. I. *Geol.*

Brown, Samuel B., W. Va. Univ., Morgantown, W. Va. *Geol., Min., C. Ex.*

Brown, T. Martin, Iowa Island, N. Y. *Lepid.*

Browne, H. M., Box 165, Natick Mass. *Mic. Photog.*

Browning, Harold W., Ph.D., Prof. of Bot., R. I. State Coll., Kingston, R. I. *Plant Physiol., Pathol.*

Bruckman, Gustav T., B.S., F.C.S., 1001 Park Ave., Woodcliff-on-Hudson, N. J.

Brues, Prof. Charles T., Bussey Inst., Harvard Univ., Forest Hills, Boston, Mass. *Ent.*

Brumell, H. P. H., M.E., F.G.S.A., Buckingham, Que., Can. *Geol., Min., Natural Gas and Oil and Mfg. of Graphite.*

Brunel, Jules B., Asst., Univ. of Montreal, 185 St. Denis St., Montreal, Can. *Bot., Genetics, Cytol.*

Bruner, H. L., Ph.D., Prof. of Zool., Butler College, Indianapolis, Ind. *Comp. Anat., and Physiol. C.*

Bruner, Lawrence, Prof. of Ent., Univ. of Neb., Lincoln, Neb. *Ent., specialty Orthopt. C. Ex.*

Bryan, Edwin H., Jr., Asst. Ent., Bishop, Mus., Honolulu, H. I. *Pacific Insects, esp. Diptera.*

Bryan, Kirk, Ph.D., Geologist, U. S. Geol. Surv., Washington, D. C.

Bryan, Wm. Alanson, Dir. Los Angeles Mus. of Hist. Sci. and Arts, Exposition Park, Los Angeles, Calif. *Museum exhibition material. C. Ex. and buy.*

Bryant, Miss E. B., 42 Gardner St., Allston, Mass. *Spiders.*

Bryant, Harold C., Ph.D., Calif. Mus. of Vert. Zool., Berkeley, Calif. *Mam., Herpet., Gen. Nat. Sci.*

Bryant, William L., Dir. of the Museum, Buffalo Society of Nat. Sci., Buffalo, N. Y. *Fossil Fishes.* C. Ex. Palaeozoic Fishes.

Brydon, J. M., Royal Oak, Victoria, B. C., Can. *Ent.* ?

Buchholz, Prof. John T., Univ. of Ark., Fayetteville, Ark. *Bot.*

Buchholz, Otto, 71 Monroe Ave., Elizabeth, N. J. *No. Am. Macro. Lepid.* C. Ex. Desires to sell whole collection of about 20,000 spec.

Buchanan, L. L., U. S. Biological Surv., Washington, D. C. *Coleopt., Curculionidae.*

Bucher, Walter H., Dept. of Geol., Univ. of Cincinnati, Cincinnati, Ohio. *Geol.*

Buck, Henrie E., 125 Mt. Liberty St., Delaware, Ohio. Have very choice *antiques* and *Prehistoric Indian Relics* for sale, also china, pewter, glass bottles, cups, plates. C. buy.

Buck, Samuel C., Paris, Me. *Min.*

Buckle, John W., c/o Thomas Robertson & Co., Ltd., 134 Craig St., W., Montreal, Can. *Lepid., Hymenopt.*

Buckstaff, Ralph N., 1101 So. Main St., Oshkosh, Wis. *Meteorites.* Ex. Buy.

Budington, Robert A., Prof. of Zool., Oberlin College, Oberlin, Ohio. *Zool., Physiol.*

Buehler, A. H., State Geologist, Rolla, Mo. *Geol.*

Buffalo Society of Natural Sciences, 1231 Elmwood Ave., Buffalo, N. Y.

Buller, A. H. R., D.Sc., Ph.D., F.R.S.C., Prof. of Botany, Univ. of Man., Winnipeg, Man., Can. *Fungi, Mycol.*

Bullinger, H. L., 243 So. Central, Glendale, Cal. *Butterflies and Moths.* C. Ex.

Buist, Geo. A., M.S., Prof. of Chem. & Biol., Furman Univ., 1026 Pendleton St., Greenville, S. C. *Nat. Hist. and Mus. Specimens.*

Bumpus, H. C., Duxbury, Mass.

Bunker, C. D., Asst. cur. in charge Mus. *Birds and Mammals*, Univ. of Kans., Lawrence, Kans. Mus. will ex. Has vast amount of N. A. material.

Bunting, Dr. Martha, Zool. Lab., Univ. of Pa., Philadelphia, Pa.

Burbank, Luther, 204 Santa Rosa Ave., Santa Rosa, Cal. *Bot., Hort., Biol., Morph., Rare Seeds.*

Burchard, Ernest F., Geologist, U. S. Geol. Surv., 3403 Lowell St., Washington, D. C. *Geol., Physiog., Min.*

Burd, J. S., Prof. of Plant Nutrition, Univ. of Calif., Berkeley, Calif.

Burger, Owen F., Agric. Exp. Sta., Gainesville, Fla. *Bot.*

Burgess, A. F., 17 E. Highland Ave., Melrose Highlands, Mass. Ent. in charge of moth work. *Gypsy and Brown-tail moths and their parasites and natural enemies.* C. Ex. *Coleopt. of the genus Calosoma.*

Burgess, Edward S., Hunter College, New York City. Prof. Biol. and Anthropol. Bot., Anthropol., Collecting esp. Aster: and Plant Lore. Res.: Park Hill South, Yonkers, N. Y.

Burgess, Thomas J. W., M.D., F.R.S.C., Med. Supt. Protestant Hospital for Insane, Box 4019, Montreal, Que., Can. *Phaen. and Crypt. Plants, Ferns.* C.

Burke, Victor, Prof. Bact., College Sta., Pullman, Wash. *Bacteria.*

Burket, H. F., Findlay, Ohio. *Arch.*

Burleigh, Thos. D., Prof. of Forestry, 190 Cloverhurst St., Athens, Ga. *Orn.*

Burling, Lancaster, B.S.G.E., Invertebrate Palaeontologist, Geol. Surv. of Canada, Ottawa, Can.

Burlingham, Luther D., Catalpa Rd., Providence, R. I. *Ent., Trees.*

Burlingame, L. L., Assoc. Prof. Bot., Stanford Univ., Cal. *Cytology, Genetics.*

Burnett, W. E., 264 W. Corydon St., Bradford, Pa. *Conch., esp. marine.* C. Ex.

Burnett, W. L., Deputy State Ent., State Agric. Coll., Ft. Collins, Colo. Mamm., *Orn.*

Burnham, Irving H., Chiloway, N. Y. *Lepid.* C. Ex.

Burnham, John, 211 Electric Bldg., San Diego, Calif. *Birds' eggs and nests.* C. Ex. and buy.

Burnham, Stewart H., Asst. Cur., Dept. of Bot., Cornell Univ., Ithaca, N. Y. *Taxonomy of vasc. and crypt. plants. Mycology.*

Burrage, Albert O., 85 Ames Bldg., Boston, Mass. *Bot.*

Burrage, Charles Dana, 85 Ames Bldg., Boston, Mass. *Bot.*

Burrill, Alfred C., Cur. Mo. Resources Mus., State Capitol Bldg., Jefferson City, Mo. *Ants, Bees, Birds, Bionomics, Ent., Forestry, Pests, Phaen., Plant Pathol.* C. Ex. ants.

Burroughs, Prof. W. B., A.M., Berea, Ky. *Orn., Min.*

Burns, Frank L. Berwyn, Chester, W. Va. *Orn.* C. Ex. and buy.

Burns, G. Sherman, Ph.D., Vt. Univ., Burlington, Vt. *Ecol., Ent.*

Burtch, Verdi, Bancroft, N. Y. *Orn., Ool., Conch.* C. Ex.

Butler, Bert S., Geologist, U. S. Geol. Survey, Washington, D. C., *Economic Geol.*

Butler, Miss Eloise, Cur. Native Plant Reserve, Glenwood

Park, 720 Fourth St. S., Minneapolis, Minn. *Native and naturalized Minn. plants.* C. Ex. or buy.

Butters, Frederic K., Ph.D., Univ. of Minn., Minneapolis, Minn. Bot.

Button, Fred L., Attorney, Bacon Bldg., Oakland, Calif. Con., Moll. Gen. C. of 12,500 species (For sale). Ex. espec. Cypræa.

Buxton, John G., 350 El Redondo St., Redondo Beach, Calif. Lapidist coll. and dealer in gem material, crystals, odd formations, fossils, relics, guns, stamps, etc. Semi-precious stones and cabinet specimens cut to order. Desires fossils, corals, petrified wood, etc. In business 35 years.

Cabell, James Alston, C.E., M.E., B.S., Richmond, Va. *Diatoms, Geol., Min., Chem., spec. Fossils, Ores, Minerals of Va. and W. Va.* C.

Caesar, L., O.A.C., Guelph, Ont., Can. Ent.

Caffrey, D. J., 10 Court St., Arlington, Mass. Corn borer. (*Pyrausta nubilalis Hubn.*)

Cahn, A. R., Asst. in Zool., Univ. of Wis., Madison, Wis. Birds and bird photo. C.

Cahan, Lazard, Dealer in Minerals, 510 Exchange Nat. Bank Bldg. Colorado Springs, Colo.

Calder, Prof. Edwin E., Longmeadow, R. I. Cicindelidæ. C. Ex. or buy.

Calef, Horace W., Room 331 Produce Exchange, New York, N. Y. Mic. C.

Calkins, Gary N., Ph.D., Prof. of Photozoology, Columbia Univ., New York. Protozoa Cytology.

Calvert, Philip P., Zoological Lab., Univ. of Pa., Philadelphia, Pa. Odonata of the world. Seasonable distr. of organisms in the tropics. C.

Calwell, Chas., Wetmore, Nemaha Co., Kans. Tax., Butterflies and Moths. Sell.

Camden, Robert, Solebury, Bucks Co., Pa. Butterflies.

Cameron, Alfred E., Zool., Univ. of Sask., Saskatoon, Sask. Can. Diptera.

Cammann, D. M., M.D., University Club, New York City. Ent.

Camp, Charles L., Asst. in Zool., Livingston Hall, Columbia Univ., New York, N. Y. Ecol. of Reptiles of Colo. Desert.

Camp, R. D., Field Collector, Brownsville, Tex. Mamm. Orn. Reptiles, Moll. C. Ex. sell.

Campbell, A. M., Mining Geologist, Box 30, Perth, Ont., Can. Geol. Min. Palaeo., Arch. C. Ex.

Campbell, D. H., Prof. Bot., Stanford Univ., Calif. Bot.

Campbell, Prof. E. G., Lafayette, Ind. *Bot.*
Campbell, Marius R., U. S. Geol. Survey, Washington, D. C.
Geol. of Fuels, Phys. Geog.
Campbell, W. W., Pres. Univ. of Calif. and Dir. Lick Observatory and Astronomer, Berkeley, Calif.
Candelario, J. S., Prop. The Original Old Curio Store, Est. in 1603, A.D., 301 San Francisco St., Santa Fe, N. Mex.
C. of everything in Curios and Antiques. Buy, sell or Ex.
Canfield, Frederick A., A.M., E.M., D.Sc., Dover, N. J. *Min.*
C. Purchases good specimens.
Cannon, Walter B., A.M., M.D., George Higginson, Prof. of Physiol., Harvard Med. Sch., 240 Longwood Ave., Boston, Mass. *Physiol. of Digestion, esp. Mechanical Factors, Smooth Muscle, Function of Emotions, Hunger, Thirst, Glands of Internal Secretion, Temperature Regulation.*
Canon, W. A., Desert Laboratory, Tucson, Ariz. *Plant Ecol.*
Carhart, Miss Grace A., Hunter Coll., N. Y. *Geol.*
Carlson, C. O., A.M., Prof. Biol., Doane College, Crete, Neb.
Mic. Slides. Ex.
Carman, J. E., Ohio State Geol. Univ., Columbus, Ohio.
Carnochan, F. I., 123 Waverley Pl., New York City. *Coleopt.*
Carnochan, F. G., New City, Rockland Co., N. Y. *Bot.*
Caron, Omer, B.S., B.S.A., Dept. of Agric., Quebec, Can.
Bot., Plant Pathol., Econ. Ent., Mic.
Carothers, E. Eleanor, Ph.D., Zool. Bldg., Univ. of Penn., Philadelphia, Pa. *Zool. in general. Orthoptera.*
Carpenter, Dana S., Middletown Springs, Vt. *Bot. Herbarium. Ex. Bot. Spec.*
Carpenter, Frederick Walton, Prof. of Biol., Trinity Coll., Hartford, Conn. *Zool., Nervous Systems of Vert.*
Carpenter, H. F., 1266 Broad St., Edgewood, R. I. *Min.*
Carpenter, Sidney C., 512 Burnside Ave., East Hartford, Conn. *Lepid. C.*
Carr, F. S., 222 4th St., S.W., Medicine Hat, Alta., Can.
Coleopt. of N. A. C. Ex. and buy.
Carr, Rufus H., Tree Warden, 160 Pearl St., Brockton, Mass. *Orn., Bot.*
Carter, Albert F., A.B., M.S., 1919 Tenth Ave., Greeley, Colo. *Ent., Bot.*
Carter, Rev. Fred B., 96 Elm St., Montclair, N. J. *Radiolaria. Mic.*
Carter, T. Donald, Dept. of Mamm., Am. Mus. Nat. Hist., 77th St. & Central Park West, New York City. *Mamm. Orn. C.*

Cartledge, Joseph Lincoln, Instructor in Botany, Univ. of Pittsburgh, Pittsburgh, Pa. *Gen. Bot., Genetics.*

Cartwright, Oscar L., Graduate Asst. in Zool., Ohio State Coll., 827 West Ridge Ave., Sharpsville, Pa. *Lepid., Coleopt. C. Ex.*

Cartwright, Wm. J., Williamstown, Mass. *Birds and Flowers.*

Case, E. C., Prof. Historical Geology and Palaeontology, Univ. of Michigan, Ann Arbor, Mich. *Palaeo. Inv. fossils from Mich. and some Permian vert. fossils offered for exchange by the Univ. Museum. Notice of collections for sale or exchange desired.*

Case, L. W., Supt. Schools, Washington Irving High Sch., Tarrytown, N. Y. *Egyptology, Arch.: Am. Indian Mayas, Aztec, Incas. C. Ex. and buy.*

Casey, Thomas L., Colonel, U. S. Army, Retired, Stoneleigh Court, Washington, D. C. *Coleopt. C. Fossils and desires to purchase.*

Cashen, Dorothy, K.S.A.C., Manhattan, Kans. *Inst. in Bot.*

Cassel, Amos M., 550 So. 19th St., Reading, Pa. *Lepid. and nature study in all phases.*

Casselberry, R. D., Dept. of Zool., State College, Pa.

Cassidy, Morton H., Asst. Prof. of Beekeeping, Fernald Hall, Amherst, Mass. *Ent.*

Cassino, Samuel Edson, Salem, Mass. *Ent.: Geometridae. Desires to purchase.*

Castle, D. M., M.D., 2007 Arch St., Philadelphia, Pa. *Coleopt. C. Ex. Florida material, also Del. and Md.*

Catlett, Charles, Chemist and Geologist, Central Bldg., Staunton, Va. *Econ. Geol. and Indust. Chem. Special work examination and report on mining property, developed and undeveloped. Consulting Engineer for coal, coke, iron, cement and railway companies. C.*

Cattell, Dr. J. McKeen, Editor of Science, Garrison-on-Hudson, N. Y. *Psychol.*

Caudell, A. N., Asst. in Bureau of Ent., Dept. of Agric. and Honorary Custodian of Orthoptera in U. S. Nat. Mus. Address: National Museum, Washington, D. C.

Caum, Edw. L., Honolulu, T. H. *Bot.*

Chace, E. P., Route A., Box 170, San Fernando, Calif. *Conch. Ex. West Coast spec. for any not in my collection.*

Chadwick, Geo. Halcott, Empire Gas & Fuel Co., Bartlesville, Okla. *Palaeont., Stratigraphy, Oil Geology.*

Chaffin, Jeff, Gainesville, Fla., Asst. Nursery Insp. *Mealy bugs. C. Ex.*

Chagnon, G., 1264 Dorrian St., Montreal Can. *Ent.*

Chagnon, Wilfrid, Care Hon. Judge Chagnon, St. Johns,

Que., Can. *Lepid.* C.
Chamberlain, E. Burnham, Charleston Museum, Charleston, S. C. *Orn., Mam.*
Chamberlain, Edw. B., 18 West 89th St., New York City. *Mosses.* C.
Chamberlain, George W., M.S., 29 Hillside Ave., Malden, Mass. *Gen. Ent.* C. Esp. Cerambycidae and Chrysomelidae.
Chamberlain, K. F., Cornwall Bridge, Conn. *Coleopt.* C. Ex. Will ex. local coleopt. for desiderata from other localities.
Chamberlin, Joseph C., Box 878, Stanford Univ., Calif. *Arachnida, Coccidae, Enhiidae.* C. Ex. *Pseudoscorpionida.*
Chamberlin, Ralph Vary, Ph.D., Cur. of Myriapoda, Arachnida and Worms, Mus. of Comp. Zool., Harvard Univ., Cambridge, Mass. *Myriapoda and Arachnida.* C. Ex.
Chamberlin, W. J., Oregon Exp. Sta., Corvallis, Ore. *Buprestidae, Cerambycidae, Scolytidae, Cleridae.*
Chambers, E. L., Capitol Annex, Madison, Wis. *Greenhouse Insects Econ. Ent.*
Chambers, W. Lee, Eagle Rock, Calif. *Orn.* C. Will buy rare books.
Champlain, A. B., Bureau Plant Industry, Harrisburg, Pa. *Coleopt.*
Chandler, Prof. Wallace L., Mich. Agric. Coll., Lansing, Mich. *Parasitology.*
Chapin, Edward A., Ph.D., Bureau Animal Inst., Dept. of Agric., Washington, D. C. *Cleridae.* C. Ex. or buy. Want Cleridae of the world.
Chapine, Wm. H., Prof. Chem., 176 Woodland Ave., Oberlin, Ohio.
Chapline, Wm. Ridgley, Jr., U. S. Forest Service, Washington, D. C.
Chapman, Felix M., Columbus, Miss. *Indian Relics of Stone Age.* C. Ex.
Chapman, Frank M., Cur. Dept. of Orn., Amer. Mus. Nat. Hist., New York, N. Y. *Orn., Geog. Dist.* C.
Chapman, Geo. Henry, M.Sc., Ph.D., Plant Physiologist, Mass. Agric. Exp. Station, Amherst, Mass. *Physiol. Diseases, Ent., Buprestidae.* C. ?
Chapman, Royal N., Fellow in Biol., Dept. of Ent., Cornell Univ., Ithaca, N. Y.
Charles, Grace Miriam, Asst. Prof. Bot., Univ. of Kans., Lawrence, Kans. *Bot., Ecol.*
Charles, Vera Katharine, B.P.I., Dept. Agric., Washington, D. C. *Mycol., Pathol.*

Chase, E. P., 7629 Walnut Drive, Los Angeles, Calif. *Con.*
C. Ex.

Cheever, Dr. Austin W., 16 Elmore St., Newton Centre,
Mass. *Bot.*

Cheever, Clarence A., M.D., Main St., Hingham, Mass. *Bot.,*
Geol.

Cheney, Harry A., School St., Hopkinton, Mass. *Bot.*
Min., Arch.

Cheney, Ralph H., A.M., M.S., Sc.D., Teacher of Biology,
N. Y. Univ., Washington Sq., New York City. N. E.
flowering plants. Will buy *Rubiaceous Herbarium*
specimens.

Cheney, Dr. R. E., Dept. of Biol., New York Univ., New
York City.

Cheney, R. H. E., Bussey Institution, Jamaica Plain, Mass.
Bot.

Chestnut, V. K., U. S. Dept. Agric., Washington, D. C.
Chem. constituents of plants.

Chester, Wayland M., A.M., Prof. of Biol., Colgate Univ.,
Hamilton, N. Y. *Zool., Coelenterata.*

Chidester, Floyd E., Prof. of Zool., West Va. Univ. *Zool.*

Child, Charles Manning, Ph.D., Univ. of Chicago, 58th St.
and Ellis Ave., Chicago, Ill. *Investigation and teacher*
of Zool.

Child, Horace Walter, 683 Atlantic Ave., Boston, Mass.
Orchids. Will buy photographs of orchids native or
tropical esp. in their habitat.

Childs, Prof. Leroy, Agric. Exp. Sta., Hood River, Ore.
Ent.

Chivers, Arthur Houston, Prof., Balch St., Hanover, N. H.
Bot.

Choquette, Rev. C. P., M.A., College St., Hyacinthe, Can.
Geol., Mic. C. Ex.

Christies, Jesse R., Asst. Neumatologist, U. S. Dept. Agric.
Box 192, East Falls Church, Va. *Nematodes.* C. Ex.
and buy.

Chubb, S. Harmsted, Am. Mus. Nat. Hist., 77th St. and
Central Park West, New York City. *Zool., Orn.*

Church, A. B., 237 Iberville St., Montreal, Can. *Birds,*
Ent.: Butterflies.

Churchill, Mrs. F. C., Lebanon, N. H. *Min., Fossils, Con.*
C. Ex.

Churchill, Hon. J. R., 18 Tremont St., Boston, Mass. *Bot.*
C.

Clapp, Geo. H., Cor. 7th & Bedford Aves., Pittsburgh, Pa.
Coll. of U. S. Land Shells.

Clapp, W. F., Mus. Comp. Zool., Cambridge, Mass. *Con.*

Clark, Anna M., Head of Dept. of Sci., N. Y. Training Sch.

for Teachers, 212 West 120 St., New York City. *Bot., Zool., Geol.*

Clark Art Concern, Box 152, So. Amboy (Factory Morgan, N. J.). Makers of butterfly novelties, trays, pictures, souvenirs.

Clark, Dr. Bertha May, William Penn High School, Philadelphia, Pa. Head of Science Dept. and Author of General Science and General Laboratory Manual.

Clark, B. Preston, Room 35, 55 Kilby St., Boston, Mass. *Sphingidae.*

Clark, Bruce L., Assoc. Prof. of Palaeo., Dir. Mus. of Palaeo., Univ. of Calif., Berkeley, Calif. *Palaeo., Geol.*

Clark, Miss Edna Anna, The Victoria, 14th & Clifton Sts., Washington, D. C. *Bot., Orn.*

Clark, Ella M., Science Critic, Box 214, Saline, Mich. (Teaching address: 3721 Moore Pl., Detroit, Mich.) *Bot.: Grasses.*

Clark, Georgiana, Wahpeton, N. D. *Orn.*

Clark, Howard L., Box 1142, Providence, R. I. *C. Lepid.*

Clark, Hubert Lyman, Ph.D., Museum of Comp. Zoology, Cambridge, Mass. The museum has a collection and desires ex. and Echinoderms from all parts of the world. Correspondence solicited.

Clark, Lee Mangan, South Amboy, N. J. *Tax., Birds, Mammals, Insects.* C. Ex. buy and sell.

Clark, Dr. Lois, Asst. Prof. of Bot., Univ. of Idaho, Moscow, Ida. *Bot.*

Clark, Robert A., B.A., Pres. Gray Memorial Bot. Chapter of Agassiz Assoc., 75 Wilbraham Ave., Springfield, Mass. *Native Orchids of N. E.* C. Ex.

Clark, Ulysses S., 898 So. 8th St., San Jose, Calif., *Geol., Bibliog., Orn., Ool.* C. Ex.

Clark, W. F., 8 Dayton St., Westerly, R. I. *Arch., Coins.*

Clarke, F. W., Chief Chem., U. S. Geol. Surv., Washington, D. C., Hon. Cur. of Min., U. S. Nat. Mus., Member Nat. Academy, Amer. Phil. Soc., Chem. Soc. and Philos. Soc. Wash., Washington Acad. Sci. *Chem., Min., Meteorites.*

Clark, H. Walton, Steinhart Aquarium, Golden Gate Park, San Francisco, Calif. *Aquatic plants and animals.*

Clarke, John M., Ph.D., Sc.D., LL.D., State Geologist and Dir. State Mus., Albany, N. Y. Prof. Geol., Rensselaer Poly. Inst., Troy, N. Y. *Palaeo., Geol.*

Clarke, N. T., State Museum, Albany, N. Y. *Technologist.*

Clarke, Samuel F., Prof. Emer. Nat. Hist., Williams Coll., Williamstown, Mass. *Gen. Biol.*

Clayberg, Harold D., Nat. Hist. Building, Univ. of Ill., Urbana, Ill. *Bot.*

Cleaves, Howard H., Sec. Wild Life League of West Va., Clarksburg, W. Va. *Orn.*

Cleland, Herdman Fitzgerald, Ph.D., Williams Coll., Williamstown, Mass. *Geol., Palaeo.*

Clemence, V. L., 274 Slevin Bldg., Pasadena, Calif. *Ent.*

Clemens, Lucy Smith, Ph.D., Pacific Biol. Sta., Nanaimo, B. C., Can. *Stone Flies.* C. Ex.

Clemens, Wilbert A., Asst. Prof. of Limnobiology, Dept. of Biol., Univ. of Toronto, Ont. *Aquatic Biol.* After June 1, 1924: Dir. of the Canadian Pac. Biol. Sta., Nanaimo, B. C. *M. & F. W. Biol.*

Clements, Edith S., (Mrs. F. E.), 530 East First St., Tucson, Ariz. *Ecol.*

Clements, Frederic E., Assoc. in Ecology, Carnegie Inst., Tucson, Ariz. *Ecol.*

Clench, Wm. J., Mus. of Zool., Ann Arbor, Mich. *L. & F. W. Shells, esp. Physidae.* Ex.

Cleveland, C. R., Dept. Entomology, Purdue Univ. Exp. Sta., Lafayette, Ind. *Ent.*

Cleveland Museum of Natural History, 2717 Euclid Ave., Cleveland, Ohio.

Clinton, George P., Botanist of the Conn. Agr. Exp. Sta., New Haven, Conn.

Clinton, H. G., M.E., Box B, Manhattan, Nevada. *Min., Palaeo.* Large coll. and new fossils. C. Ex. and buy.

Clokey, Ira W., Gushard Bldg., Decatur, Ill. *Bot.* C. Ex.

Clough, Lauren, East Concord, N. H., *Min., Petrographical Mic.* C.

Clute, Willard M., Editor American Botanist, Joliet, Ill. *Growing wild plants; introducing new plants; testing hardiness of exotics.* C. Ex.

Coale, Henry K., Highland Park, Ill. *Birds of the world.* Coll. of bird skins. C. Ex. and buy.

Cobb, Charles, 26 No. Pine Ave., Albany, N. Y. *Bot., Geol., Gen. Biol.* C.

Coburn, Miss Louise H., Skowhegan, Me. *Bot.*

Cochrane, J. D., A.M., M.D., 92 Elm St., Saco, Me. *Min.* C. Ex.

Cockerell, Dr. T. D. A., State University, Boulder, Colo. *Ent.: Hymen.*

Cockle, J. William, Kaslo, B. C., Can. *Collector Eupithecia.* C. Ex. for specialty.

Coe, Wesley R., Ph.D., Prof. Biol. and Cur. Zool. Dept., Peabody Mus., Yale Univ., 175 Bishop St., New Haven, Conn. *Gen. Biol.*

Coffin, Mrs. Percival Brooks, 5708 Kenwood Ave., Chicago,

Ill. *Orn., Bot.*
Coit, J. Eliot, Expert Hort., 1880 Linda Vista Ave., Pasadena, Calif.
Coker, Robert Ervin, Prof. of Zool., Univ. of N. C., Chapel Hill, N. C. *Fishes and other aquatic animals.*
Coker, William Chambers, Ph.D., Prof. of Bot., Univ. of N. C., and Dir. of the Arboretum, Chapel Hill, N. C. *Gymnosperms, Fungi.*
Colby, A. S., Assoc. Chief of Pomology, Univ. of Ill., Urbana, Ill. *Ornamentals and shrubs, both wild and cultivated, bearing edible fruits.* C. Ex. and buy.
Colditz, Max, Allardt, Tenn. Ent. E.
Cole, Mrs. Arthur W., 735 N. Main St., West LaFayette, Ind. *Orn., Flowers, Mushrooms.*
Cole, F. R., Route A, Box 177, Redlands, Calif. *All phases of Zool., esp., Syst. & Econ. Ent.* Ex. Diptera.
Cole, H. E., Editor Baraboo News, Baraboo, Wis. *Nature and local history.*
Cole, Miss Maria, Red Deer, Alta., Can. *Orn., Bot.*
Cole, (Miss) Lillian A., Union, Me., *Flora of Me.* C. Ex. or sell Knox Co. Flora.
Coleman, Prof. A. P., Ph.D., F.R.S., Emer. Prof., Geol. Dept. Univ. Toronto, Ont., Can. *Geol., Pleistocene and Archæan*
Coleman, Geo. A., 2649 Russell St., Berkeley, Calif. *Agriculture, Coccidae.* C. Ex.
Coleman, Laurence V., Osborn Zool. Lab., Yale Univ., New Haven, Conn. *Lepid.* C.
Colley, R. H., U. S. Dept. of Agric., Madison, Wis. *Mycol., Diseases of Forest Trees.*
Collins, Guy N., Lanham, Prince George's Co., Md. *Bot.*
Collins, H. H., Assoc. Prof. Biol., Univ. of Pittsburgh, Pittsburgh, Pa. *Land Planaria, Salamandus,* C. Ex. and buy.
Collins, J. Franklin, U. S. Dept. Agric., Brown Univ., Providence, R. I. *Bot.: Fungi, Mosses.* C.
Collins, Dr. J. L., Inst. in Genetics, 314 Hilgard Hall, Berkeley, Calif. *Genetics.*
Collins, W. H., B.A., Ph.D., Dir. Geological Surv., Ottawa, Can.
Colony, Ray J., Asst. Prof. of Geol., Columbia Univ., New York City. *Geol., Min., Petrology.*
Colton, George H., Ph.D., Prof. Phys. Sci., Hiram Coll., Hiram, Portage Co., Ohio.
Colton, Harold S., Ph.D., Zool. Laboratory, Univ. of Penn., Philadelphia, Pa.
Colton, J. D., 53 Sunapee St., Springfield, Mass. *Geol. and allied sciences, esp. rocks.*

Combs, A. Fenton, 225 Farrand Ave., Highland Park, Mich.
Odonata. C.

Comstock, Dr. Carolyn C., Suite 318, Ferguson Bldg., Los Angeles, Calif. Home add.: 3075 Hill St., Los Angeles, Calif. *Lepid.*

Comstock, Frank M., Prof., Case Sch. of Applied Science, Cleveland, Ohio. *Glacial Geol.*

Comstock, Dr. John A., 300 San Fernando Bldg., Los Angeles, Calif. *Lepidopterist*, Southwest Museum, Prof. Anat. and Emt., College of Ost. Phy. and Surg., Los Angeles, Calif. *Diurnal Lepidoptera.* C. Ex.

Comstock, J. Henry, Prof. of Ent. and Gen. Invert. Zool., Cornell Univ., Emeritus, Ithaca, N. Y. *Ent.*

Comstock, Wm. P., 117 Lincoln Ave., Newark, N. J. *Lycaenidae and Riodinidae.* C. of Lepidoptera. Will purchase.

Conard, Henry S., Ph.D., Prof. of Bot., Grinnell College, Grinnell, Iowa. *Dennstaedtia. Nymphaeaceae.*

Conarroe, Thos. H., M.D., 1735 N. 16th St., Philadelphia, Pa. *Anth., Comp. Anat., Biol.*

Conger, Allen C., Asst. Prof. Zool., Mich. Agric. College, East Lansing, Mich. *Zool., Parasitology.*

Conklin, George Hall, M.D., Cur. Hepatic Herbarium, Sullivant-Moss Soc., 201 Board of Trade Bldg., Superior, Wis. *Hepatics.* C. Ex. and buy.

Conn, Harold J., N. Y. Agric. Exp. Sta., Geneva, N. Y. *Bacteriology.*

Connell, Rev. Robert, 1057 Chamberlain St., Victoria, B. C. Can. *Geol., Bot.* C. Ex.

Conover, H. B., 6 Scott St., Chicago, Ill. *Game birds of world.* C. Ex. and buy.

Conover, Miss L. Lenore, Supervisor of Nature Study, Detroit Teachers' Coll., Detroit, Mich. *Biol., Nature Study.*

Conrad, Abram H., 4028 Jackson Rd., Chicago, Ill. *Shells and fossils.*

Conklin, Edwin G., Ph.D., Prof. Biol., Princeton, Univ., Princeton, N. J. *Zool., Morphol., Emb., Cytology.* C. Ex.

Conklin, Dr. George H., 1204 Tower Ave., Superior, Wis. Cur. Hepatic Mus., Sullivant-Moss Soc. *Hepatics.* C. Ex. or buy.

Connolly, Rev. Cornelius J., Ph.D., Prof. Biol., Univ. of St. Francis Xavier, Antigonish, Nova Scotia. C.

Conradi, A. F., Chief Division of Ent. and Zool., Agricultural College, Clemson, S. C.

Cook, Franklin N., Seaside House, Atlantic City, N. J.
Orn., Ool., Bird Banding. C. buy.

Cook, Harold J., Consulting Geologist, Agate, Sioux Co., Nebr. *All types of Nat. Hist., particularly Paleo., Zool. and Biol.* C. Ex.

Cook, John H., 12 McPherson Terrace, Albany, N. Y. *Ent.*

Cook, Melville, T., Ph.D., Plant Pathol., Insular Expr. Sta., Rio Piedras, Porto Rico.

Cook, Orator F., (Bot., U. S. Dept. Agric.) Lanham, Md. *Palms, Myxomycetes, Myriapods.* C. Ex.

Cook, Wm. C., Ph.D., Asst. Ent., Mont. Exp. Sta., Bozeman, Mont. *Insect Ecology distribution, Noctuidæ.* C. Ex.

Cooke, C. Montague, Bishop Museum, P. O. Box 3415, Honolulu, H. I. *Molluscs.* C.

Cooke, H. C., B.A., M.A., Ph.D., Geologist, Geological Survey, Ottawa, Can.

Cooke, Wm. T., 167 Power St., Providence, R. I. *Min., Indian Relics.* C. Ex.

Cookman, Alfred, A.B., M.S., Inst. of Biol. and Bacteriology, Polytechnic High Sch., Los Angeles, Calif., 336 West Pioneer Drive, Glendale, Calif. *Arachnology, Gen. Biol., Orn.*

Cooley, Robert Allen, State Entomologist, Bozeman, Mont. *Econ. Ent., Coccidæ, Ixodidæ.* C. Ex. Orthoptera. Ixodidæ.

Coolidge, Karl R., Author, Box 12, Hollywood, Calif. *N. A. Lepid.* C. Ex. and buy.

Coolidge, Philip T., Forest Engineer, 31 Central St., Bangor, Me. *Forestry, Geol., Orn.*

Coombs, Edw. S., 233 Washington St., Malden, Mass. *Orn., Ool.* C.

Coons, G. H., Ph.D., Research Assoc. in Plant Pathol., Mich. Agric. Coll., Lansing, Mich.

Cooper, Wm. S., 1523 West Lake St., Minneapolis, Minn. *Inst. in Plant Phys. and Ecol., Plant Geog.*

Cope, Francis R. Jr., Dimock, P. O., Pa. *Photog., Orn., Nature Study.*

Copeland, Dr. Clarence S., Rochester, N. H. *Indian Relics.* C. Ex.

Copeland, Manton, Prof. of Biol., Bowdoin Coll., Brunswick, Me. *Mammalogy, Physiology of nervous system and animal behavior.* C. Mammals.

Corcoran, J. A., M.D., S.J., Prof. Biology, Loyola Coll., Montreal, Can. *Lepid.* C. Ex.

Corfe, Chas. Edw., 94 Sheridan Ave., Toronto, Ont., Can. *Insects, generally.* Large coll. of local material. Ex.

Cornman, Mrs. Leighton R., 2852 Adams Ave., San Diego, Calif. *Bot.; esp. ferns.* C. Ex.

Corrington, Julian Dana, Prof. Zool., Univ. of S. C., Columbia, S. C. *Herpetol.*

Cort, William Walter, Univ. of Calif., Berkeley, Calif. *Zool.*

Corwin, Roy S., Supervisor of Extension, Public Museum, Milwaukee, Wis. *Zool.*

Cory, E. N., State Ent., Univ. of Md., College Park, Md. *Econ. Ent.*

Cottle, James Edw., 2432 Sacramento St., San Francisco, Calif. *Ent., Lepid., Coleoptera.* C. Ex. Buy Col. spec.

Cottman, E. T. H., 99 Congress Ave., Rochester, N. Y. *Arch. C.*

Cotton, Richard T., U. S. Bureau of Ent., Washington, D. C. *Curculionia larvae of all kinds.*

Couch, J. N., Inst. Bot., Univ. of N. C., Box 443, Chapel Hill, N. C. *Fungi. Water Fungi in particular.* C. Ex.

Couch, Leo H., U. S. Biol. Surv., Olympia, Wash. *Birds, Mamm.*

Coulter, Stanley, Ph.D., LL.D., Dean School of Sci., Dean of Men, Purdue Univ., LaFayette, Ind. *Bot., Forestry.*

Courtis, Wm. M., A.M., 449 Fourth Ave., Detroit, Mich. *Bot., Mic., Min., Geol., Meteo.* C.

Courtney, Prof. Wilbur D., Agric. Coll., Corvallis, Ore. *Zool.*

Coville, Frederick V. Bot., Dept. of Agric., Washington, D. C. *Ericaceae, Juncaceae, Grossulariaceae.* C. Ex. or buy.

Cowles, Henry C., Ph.D., Prof. of Botany, Univ. Chicago, Chicago, Ill. *Bot., Ecol., Plant Geog., Geol.* C.

Cox, Frank A., North Crystal Lake, Ill. *Gen. Mus. coll.* Buys, sells and exchanges mounted birds and mammals. Arch. specimens, butterflies, reptiles.

Cox, G. H., B.S., M.A., Ph.D., E.M., Prof. of Geol. and Min., Missouri Sch. of Mines and Metallurgy, Rolla, Mo. *Geol., Min.*

Cox, Wilmot Townsend, New Canaan, Conn. *Birds, bird songs. Characteristic bird flights.*

Coxey, W. Judson, 428 Linden St., Camden, N. J. *Lepid. of the world.* C.

Crabb, Edw. D., M.A., Public Mus., Milwaukee, Wis. *Gen. Zool., esp. Orn. and Mam.*

Cragin, Prof. Francis Whittemore, S.B., Ph.D., 912 E. San Miguel St., Colo. Springs, Colo. *Geol., Palaeo., Min., Biol., Ethnol., Arch.* Engaged in researches in early Hist. of the West.

Craig, J. B., Beaver, Pa. *Inst. in Nature Study.*

Craig, Wallace, Librarian, Dept. of Biophysics, Harvard Med. Sch., Huntington Hospital, 390 Huntington Ave., Boston, Mass. *Animal behavior.*

Craighead, F. C., Ent. in charge, Forest Insect Investiga-

tion, Bureau of Ent., Washington, D. C. *Cerambycidae, Forest Ent.*

Cram, Eloise B., Asst. Zool., Bur. of Animal Industry, Dept. of Agric., Washington, D. C. *Zool.: esp. Parasitology.*

Crampton, G. C., Ph.D., Prof. Ent., Mass. Agric. Coll., Amherst, Mass. *Insect Phylogeny and Anatomy.* C. about 30,000 spec. Ex. or buy all orders; most primitive representatives of the lowest families in all orders especially desired for studies in insect genealogy.

Crampton, Henry Edward, Prof. Zool., Barnard College, Columbia Univ., New York, N. Y. *Zool.*

Crandall, Lee S., Cur. of Birds, N. Y. Zool. Park, New York City. *Birds. Care of Birds in Captivity.*

Crandall, Wesley Clarence, P. O. Box 68, La Jolla, Calif. *Methods of making marine collections. Kelp, Fish.*

Crane, M. S., Caldwell, N. J. *Ent. C.*

Crane, Rufus, 427 W. William St., Delaware, Ohio. *Phan. Bot. C.*

Crane, S. Ellis, M.D., 1403 So. State St., Syracuse, N. Y. *Geol.*

Crane, W. E., C.E.A.M., 13th St., N. E., Washington, D. C. *Con., Min., Geol., Palaeo.,* C. Ex. or buy. Have half million specimens (4,000 species) U. S. and Foreign Fossils. M. L. and F. W. Shells in duplicate. Anxious to ex. Correspondence invited.

Crawford, Prof. David L., Univ. of Hawaii, Honolulu, T. H. *Ent., Homoptera.* C. Ex.

Crawford, Henry Gordon MacG., Wilton Grove., Ont., Can. *Ent.*

Crawford, James A., M.S., N. Y. Bot. Garden, New York City. *Bot.*

Crawford, J. C., Asst., Div. of Ent., N. C. State Dept. of Agric., Raleigh, N. C. *Hymen., esp. Aculeata.*

Crawford, Lewis F., Cur. and Lib. State Hist. Soc., Bismarck, N. D. *Birds, Min. Small mammal skins.* C. Ex. and buy.

Crawford, Ralph D., Prof. Min. and Petrol., Univ. of Colo., Boulder, Colo.

Crawford, Stanton C., Prof. of Biol., Lynchburg Coll., Lynchburg, Va. *Zool.*

Crowley, Howard, U. S. Dept. of Agric., Washington, D. C. *Parasitic Protozoa.* C. Ex. Protozoa.

Crayton, F. M., Biltmore, No. Car. Bot. specimens, seeds.

Cresson, Ezra T., Acad. Nat. Sci., Philadelphia, Pa.

Cresson, E. T., Jr., Acad. Nat. Sci., Philadelphia, Pa. *Ent., Dipt.: Acalypterae, esp. Ephydriidae.*

Crête, F. V., c.s.v., 3600 St. Lawrence Blvd., Montreal, Can.

Ex. or buy. Minerals of special interest to make industrial exhibits. Wish to make small exhibits illustrating natural history and industry of each country of the world.

Crevecoeur, F. F., Onaga, Kans. *Gen. Ent.* C.

Critchon, Miss L. L., Wright, Calif. *Butterflies and Moths.*

Criddle, Norman, Tressbank, Man., Can. Field Officer, Dom., Ent., *Field Crop insects.*, Econ. Ent. C.

Criddle, Evelyn, Aweme, Man., Can. *Ent.*

Crocker, J., 1045 McClure St., Victoria, B. C. *Ent.*

Crook, Alja Robinson, Ph.D., State Mus., Springfield, Ill. *Min.* Desires exchange on behalf of Museum.

Crosby, Prof. C. R., Roberts Hall, Ithaca, N. Y. *Arach.*, *Econ. Ent.* Will determine Phalangida and Spiders.

Crosby, G. C. S., Box 66, Red Deer, Alta., Can. *Lepid.* (Alberta only). *Bird life.* C. Ex.

Crosby, Maunsell S., Rhinebeck, N. Y. *Orn.*

Crosby, Nicholas E., Ph.D., 62 West 56th St., New York City. *Ent.*

Cross, Whitman, Ph.D., U. S. Geol. Surv., Washington, D. C. *Geol., Min., Lithol.*

Crossman, S. S., Entomologist, U. S. D. A., 17 E. Highland Ave., Melrose Highlands, Mass. *Biol. control of injurious insects.*

Crowell, Anthony, East Harwich, Mass. *Carving wooden birds.*

Crowley, Charles Felix, Prof. Chem., Creighton Univ., John A. Creighton Dental Coll., Omaha, Nebr. *Chem., Chem. Phys.*

Crozier, W. J., Prof. of Zool., Rutgers Coll. and the State Univ. of N. J., New Brunswick, N. J. *Gen. and Marine Zool., animal behavior; adaptations.*

Cruikshank, H. S., Box 203, Truro, N. S., Can. *Birds and Game Heads.*

Crumb, S. E. Bur. of Ent., Clarksville, Tenn. *Jassoidea, Noctuid larvae.* C.

Crump, Shelley G., Pittsford, Monroe Co., N. Y. *Invert., Moll., Arch.* C. Ex.

Crump, Col. Malcolm H., F. G. S. A., Consulting Geologist, Ky. Rock Asphalt Petroleum. B. G., Oolitic Bldg., Bowling Green, Ky. *Geol., Stone, specialty.*

Cummings, Carlos Emmons, M.D., Sec. Buffalo Soc. of Nat. Sci., Library Bldg., Buffalo, N. Y. *Mus. work, Tax.* C.

Cummings, Marshall B., Prof. Hort., University, Burlington, Vt. *Plant Breeding.*

Cummins, Dr. G. Wyckoff, Belvidere, N. J. *Orn., Geol.*

Cummins, Harold, Asst. Prof. of Anat., Tulare Univ., New Orleans, La. *Anat: Skin patterns of the palm, digits,*

and sole, in man and other animals.

Cunningham, Bert., Ph.D., Prof. Zool., Trinity Coll., Durham, N. C., *Ent., Mic.*, with esp. ref. to Protozoa.

Curl, R. W., Port Orford, Oregon. *Lepidoptera.* C. Ex.

Curran C. Howard, Ent. Branch, Dept. of Agric., Ottawa, Can. *Diptera.* C. Ex.

Currier, John M., M. D., Newport, Orleans Co., Vt. *Arch., Min., Eth., Palao.* ?

Curry, Haskell B., 60 Bay State Rd., Boston, Mass. *Birds.*

Curtis, Carlton C., Ph.D., Columbia Univ., New York City. *Physiol., Mot., Morph.*

Curtis, Chas. L., Groton, Mass. *Bot.*

Curtis, Geo. C., 11 Weyanoke St., Boston, Mass. *Geol., Physiographic Photography; Naturalistic land reliefs.*

Curtis, W. C., Prof. of Zool., Univ. of Mo., Columbia, Mo. *Mianidae Platoda, Parasitology, Protozool., Hist. and Humanistic aspects of Biol. Sci.*

Cushing, Dr. H. H., Inst. in Zool., Univ. of Penn., Philadelphia, Pa. *Comp. Mammalian Anat.*

Cushman, Dr. Joseph A., Brook Road, Sharon, Mass. *Foraminifera.*

Cushman, Robert Asa, Bureau of Ent., Washington, D. C. *Ent. Ichneumonidae.*

Custer, R. G., 200 Victoria Ave., St. Lambert, P. Q., Can. *Birds and Nature Studies.*

Cutler, Dr. Ira E., Univ. of Denver, University Park, Colo.

Cutler, Norman L., Box 308, Vernon, B. C., Can. *Forest Ent., B. C. Coleoptera.*

Cutwright, C. R., Ohio Agric. Expr. Sta., Wooster, Ohio. *Ent.*

Cutter, Prof. J. H., Univ. of Alberta, Edmonton, Alta., Can. *Grasses.*

Dachnowski, Alfred Paul, Bureau of Plant Industry, Washington, D. C. *Ecology and Pest Investigations.*

Dadisman, A. J., 305 Beverly Ave., Morgantown, W. Va. *Orn., Mam.* C. Ex.

Dahl, John L., Royal Oak, Mich., *Zool., Phys. Geol.*

Dahlgren, Uric, A.B., M.S., Prof. Biol. in Princeton, Univ., Princeton, N. J., Dir. of the Mt. Desert Island Biol. Lab., Bar Harbor, Me. *Histol., Cytology.* Ex. publications. Interested in production of Heat, Light, Motion and Electricity by animals, and plants.

Dale, E. M. S., 297 Hyman St. N., London, Ont., Can. *Orn., Bot.*

Dale, Nelson C., Ph.D., Dept. of Geol., Hamilton Coll., Clinton, N. Y. *Scientific and Econ. Geol.*

Dale, T. Nelson, Retired Geol., U. S. Geol. Surv., 78 Holmes Rd., Pittsfield, Mass. *Struct. Geol., Granite, Slate, Marble.*

Dall, Wm. H., Sc.D., LL.D., Smithsonian Inst., Washington, D. C. *Tertiary and recent Mollusca.*

Daly, Dr. R. A., Sturgis Hooper Prof. of Geol., Harvard Univ., Cambridge, Mass. *Geol., Geog., Petrog.*

Dana, Edw. S., Ph.D., New Haven, Conn. *Min., Crystall.*

Dana, Samuel T., Dir. Northeastern Forest Expr. Station, U. S. Forest Service, Amherst, Mass. *Silviculture, Forest Management, Ecology.*

Danforth, C. H., Ph.D., A. M., Prof. Anat., Stanford Univ., Calif. *Anthrop. Human variations, Heredity.*

Danglade, Ernest, Vevay, Ind. *Biol. C.*

Daniel, John, Prof. Phys., Vanderbilt Univ., Nashville, Tenn. *Geol., Min., Phys., Elect., Mic., Ast.*

Danner, Mrs. May S., 1646 Cleveland Ave. N. W., Canton, Ohio. *Orn.*

Danziger, C., Asst. Mineralogist, Columbia Univ., New York, N. Y. *Min.*

Darby, E. W., 229 Main St., Winnipeg, Can. *Taxidermist.* Dealer in Indian work, baskets, raw and dressed furs.

Darling, Chester A., Prof. of Biol., Allegheny Coll., Meadville, Pa. *Bacteriology, Cytology.*

Darling, Miss Nancy, Woodstock, Vt. *Bot. C. of Ferns and Flowering Plants. Ex. both. Would like European specimens.*

Darlington, Henry T., M. S., Assoc. Prof. Bot., Mich. Agric. Coll., Lansing, Mich. *Bot. ?*

Darrel, John, Prof. of Phys., Vanderbilt Univ., Nashville, Tenn. *Physics. Geol., Min.*

Darton, N. H., U. S. Geol. Surv., Washington, D. C. *Geol.*

Davenport, Charles Benedict, Ph. D., Cold Spring Harbor, N. Y. *Anthropology and Human Heredity.* C. of data on Heredity.

Davidson, Anstruther, M. D., 419 S. Alvarado St., Los Angeles, Calif. *Bot.*

Davidson, John, F. L. S., F. B. S. E., Asst. Prof. of Bot., Cur. Herb. and Bot. in charge of Bot. Garden, Univ. of B. C., Vancouver, B. C., Can. *Flora of B. C., and Pacific Slope.* C. Ex. western spec.

Davidson, W. M., Entom., U. S. Dept. Agric., Vienna, Va. *Ent.: Ex. Diptera, Syrphidae.*

Davis, A. W., 703 Humbert Ave., Utica, N. Y. *Orn., Polished specimens.*

Davis, Bradley Moore, Prof. of Bot., Univ. of Mich., Ann Arbor, Mich. *Bot.*

Davis, Edw. E., 29 Henry St., Norwich, N. Y. *Palaeo., Geol., Photog.* C. Ex. or sell fossils.

Davis, Dr. F. L., Corozal, Brit. Honduras, Cent. Am. *Lepid.*

Davis, G. A., Mexico, N. Y. *Orn., Tax. C. Ex.*

Davis, Dr. Hallowell, Harvard Medical School, Boston 17, Mass. *Physiol., Biochem.*

Davis, Henry W., 10 So. Baton-Rouge Ave., Atlantic City, N. J. *Ool. C. Ex. and buy.*

Davis, J. J., Curator, Biological Bldg., Madison, Wis. *Parasitic Fungi. C. Ex.*

Davis, Rev. John, D. D., 318 North 7th St., Hannibal, Mo. *Grasses, Sedges, Rushes. C. Ex.*

Davis, John June, Purdue Univ., Lafayette, Ind. *Econ. Ent., Aphididae, Lachnostenra. C. Ex.*

Davis, Wm. M., 31 Hawthorn St., Cambridge, Mass., Prof. Emeritus in Harvard Univ. *Phys. Geol., Geog.*

Davis, Wm. T., 146 Stuyvesant Pl., Staten Island, N. Y. *Orthoptera, Odonata, Cicadas. C. Ex. Insects. ?*

Dawson, James Arthur, Zool. Lab., Harvard Univ., Cambridge, Mass. *Gen. Zool. subjects, esp. Protozoology and Ecology.*

Dawson, Ralph W., Dir. of Ent., Univ. of Minn., St. Paul, Minn. *Coleopt. C. Ex. scarabaeidae, esp. of the genus Serica.*

Day, Arthur L., Dir. Geographical Laboratory, Washington, D. C. *Geol.*

Day, David Talbot, Consulting Chemist, Washington, D. C. (719 19th St.) *Chem. of Petroleum. C. Ex. oil shales.*

Day, Geo. O., Duncan, Vancouver Island, B. C., Can. *Lepid.*

Day, Mary A., Librarian, Gray Herbarium of Harvard Univ., Cambridge, Mass. *Bot.*

Day, Richard H., 419 North 2nd St., Philadelphia, Pa. *Bot.*

Day, Stephen, 19 Oliphant St., Morristown, N. J. *Diatoms, Mic.*

Dayton, Rev. Francis S., Cur. Public Mus., New London, Wisc. *Arch., Bot., Palaeo. C. Ex.*

Dayton, William Adams, U. S. Forest Service, Washington, D. C., *Ecol., Taxonomy, Econ. value of Nat. Forest Range Plants.*

Deam, Charles C., Bluffton, Ind. *Bot., Forestry, Herbarium. Ex.*

Dean, Bashford, Ph. D., Prof. in Vert. Zool., Columbia Univ., New York, N. Y. Address: Riverdale-on-Hudson, N. Y. City. Cur. Emer. Fishes and Reptiles, American Mus. Nat. Hist., New York, N. Y. *Vert. Morph. (Fishes).*

Dean, F. R., 7370 Carleton Ave., University City, Mo. *Lepid. C. Ex. Catocalae and butterflies; small animals and birds.*

Dean, Geo. A., Entomologist in Charge, Cereal and Forage Insect Investigations, Bureau of Entomology, Washington, D. C.

Deane, Walter, 29 Brewster St., Cambridge, Mass. C. of about 39,000 sheets of plants, including the flowering plants and vascular Cryptograms of North Eastern, U. S.

Dearborn, Ned, Dearborn Fur Farm, Sacket Harbor, N. Y.

Dearness, John, London, Ont., Can. *Phaen., Fungi, Mic.* C.

Deats, H. E., Flemington, N. J., Librarian of the Hunterdon Co. Historical Soc. *Arch., Philately. (U. S. and C. S. A. only).*

Deau, Dr. Exilda J., 501 Auditorium Bldg., 5th and Olive, Chicago, Ill. *Bot.*

Deere, Emil O., Prof. Biol., Bethany Coll., Lindsburg, Kans. *Ecol., relation of animals to temperature and moisture.*

De Forest, H., 100 W. 26th St., Baltimore, Md. *Forest Bot., Ecol. ?*

Deghues, Joseph A., Pres. Lederle Laboratories, 39 West 38th St., New York, N. Y. *Chem., Phys., Elect., Mic., Photog., Gen. Biol.*

Deisher, H. K., Kutztown, Pa. *Arch. C.*

De la Torre, Bueno J. R., White Plains, N. Y. *Heteropterous Hemiptera. C. Ex. and buy.*

Dellinger, O. P., Ph.D., Prof. of Biol. State Teachers Coll., Pittsburg, Kans. *Protozoa and Algae.*

De Long, Dwight M., Prof. Ent., Dept. Ent., Ohio State Univ., Columbus, Ohio. *Homoptera esp. Cicadellidae. C. Ex.*

Demeric, M., Investigator for Dept. of Genetics, Carnegie Inst. of Washington, Cold Spring Harbor, N. Y. *Genetics.*

Demetric, Rev. C. H., P. O. Box 6, Lafayette Ave., Emma, Mo. *Mosses, Lichens, Ferns and their allies. C. Wishes to buy rare and foreign species. Lists desired.*

De Muth, D. L., 193 E. Northwood Ave., Columbus, Ohio. *Lepid. (Other than U. S. forms). C. buy and sell.*

Dence, Wilford A., B. S. Asst. in Roosevelt Wild Life Forest Exp. Sta., N. Y. State Coll. of Forestry, Syracuse, N. Y. *Wild life in relation to Forestry. Life History and Habits of F. W. Fishes.*

Denber, O. G., Univ. of Mo., Columbia, Mo. *Plant Phys.*

Dennis, A. J., Box 34, Beulah, Man., Can. *Moths, Butterflies, Stamps. Will collect all kinds of Nat. Hist. spec. for stamps. C. Ex.*

Dennis, Mrs. Frank H., 5 Castle Park, Rochester, N. Y. *Bot.: Ferns.*

Dennis, Mrs. John, 75 Bellevue Drive, Rochester, N. Y. *Bot.*

Denniston, Lawrence, R. D. 1, Finleyville, Pa. *Arch.*

Denniston, Prof. R. H., Biol. Bldg., Univ. of Wis., Madison, Wis. *Lichens. C. Ex.*

Denny, Mrs. Dan, Dir. Harriman Mus., Harriman, Tenn.

Denslow, Herbert M., 2 Chelsea Square, New York City.
N. A. *Orchidaceæ*. C. Ex. but wish especially good
herbarium spec. from southern and western states.

Denton, R. Winsford, Wellesley, Mass. *Lepid.* C.

Denton, Sherman F., Wellesley, Mass. *Fish*.

Denton, S. W., 24 Denton Rd., Wellesley, Mass. *Ool.*, *Ent.*,
Con. (*Unionidae*) *Photog.*, *Min.*, *Geog.* *Dist.*, *Eth.*,
Pearls, Gems, and Precious Stones, and all kinds of gem
cutting. C. and wish to buy precious stones.

de Ong, E. R., Inst. in Ent., 300 Entomology Bldg., Univ.
of Calif., Berkeley, Calif. *Economically important in-*
sects, particularly those attacking orchards and stored
products. C. Ex.

de Regt, Prof. Albert Chester, Rutgers Coll., New Bruns-
wick, N. J. *Chem.*, *Min.* C.

Dergan, Jas. F., Gilmore City, Iowa. *Indian Relics.* C. Ex.
and buy.

Derick, Carrie M., M. A., Prof. of Morphological Bot., Mc-
Gill Univ., Montreal, Can.

Derickson, S. H., Prof. of Biol., Lebanon Valley Coll., Ann-
ville, Pa. *Pteridophytes, Spermatophytes, Vertebrates*.

Dery, Dr. D. A., 1 rue Ste. Julie, Quebec, Can. *Nat. Hist.*,
Mam. Fishes, Birds, Geol., Trees, Min., Oceanography.
C. Ex. Buy.

Desper, Ernest W., S. M., Instr. of Sci., N. H. S., Worcester,
Mass. *Chem.*, *Phys.*, *Electro-Chem.*

Detmers, Freda, Ph. D., Prof. of Bot., Worcester, Ohio. *His-*
tol., *Anat.*, *Ecology*.

Detwiler, John D., Asst. Prof. of Biol., Univ. of Western
Ont., 844 Hellmuth Ave., London, Ont., Can. *All phases*
of Nat. Hist., esp. Ent.

Devision Robert, 1176 E. Main St., Rochester, N. Y. *Ent.*
C. Ex.

de Vou, Miss Mary R., (A. B. Wellesley) 1311 Delaware
Ave., Wilmington, Del. *Bot.* C.

de Vyner, J. Jas., 304 East 3d St., Mt. Vernon, N. Y. *Econ.*
Ent. *Trees, Ferns and Orchids.* *Life histories of*
econ. insects. C.

Dewey, Lyster H., U. S. Dept. Agric., Washington, D. C.
Econ. Bot.: Fiber plants.

De Wolfe, Loran A., M. Sc., Normal Coll., Truro, Nova
Scotia. *Bot.*, *Geol.*, *Ent.* C. and Ex. of Lepid.

Dice, Dr. Lee R., Cur. of Mammals, Mus. of Zool., Univ. of
Mich., Ann Arbor, Mich. *Mam.*, *Animal ecology, bio-*
geography. Buy rabbits, hares, pipes, books, and pam-
phlets on mammals.

Dickey, W. H., 152 No. Temple St., Huntington Park, Calif.
Indian Relics, Crystals, Curious rock formations, Fos-

sils, etc.

Dickson, James G., Ph. D., Assoc. Prof. Plant Pathol., Univ. of Wisc., Madison, Wisc. *Biol.: esp. Bot.*

Dickey, Donald R., 514 Lester Ave., Pasadena, Calif. *Birds, Mammals, Motion pictures of big game.*

Didlake, Mary Le Grand, M. S., Asst. Ent. and Bot., Ky. Agric. Expr. Sta., Lexington, Ky. *Bot., Ent., Bacteriology.*

Diehl, William W., Asst. Mycologist, Bureau of Plant Industry, U. S. Dept. of Agric., Washington, D. C. *Taxonomy and Morphology. C. Ex. fungi.*

Dietrich, Henry Appleton, N. Y. *Coleopt. C. Ex. and buy.*

Dietz, Wm. G., M.D., Hazleton, Pa. *Tipulidae, Diptera. C. Ex. in Dipt. Coleopt. Lepid. or buy for cash.*

Dilley, E. P., R.F.D. 1, Box 12, Mechanicsburg, Miss. *Indian Relics and History of Red Men.*

Dillinger, Samuel C., Prof. Zool., Univ. of Ark., Fayetteville, Ark. *Vert. Zool. C. Ex. buy.*

Dimmock, George, Ph. D., 531 Berkshire Ave., Springfield, Mass. *Bibliog.: Early stages of Beetles, Ent., Zool. C.*

Dimock, George Edward, Jr., Elizabeth, N. J. *Orn.*

Dimond, A. G., 228 Park Pl., East Aurora, N. Y. *Coleopt.*

Dingman, Russell, 227 Bay St., Toronto, Ont., Can. *Birds, Flowers, Mushrooms.*

Dione, C. E., A.M., Cur. du Mus. Zool. de l'Univ., Laval, Que., Can. *Zool. C. Ex.*

Dixon, Herbert Bennett, 1429 Lemoyne St., Los Angeles, Calif. *Buy exotic Lepid.*

Dixon, Roland B., Ph. D., Prof. in Anth., Peabody Mus. of Amer. Arch. and Eth., Harvard Univ., Cambridge, Mass. *Anth.*

Dixwell, John, A. B., M. D., (Harvard) 52 W. Cedar St., Boston, Mass. *Minerals, Zool.*

Doane, R. W., Assoc. Prof. of Ent., Stanford Univ., Stanford University, Calif.

Dobbins, Raymond A., Dept. of Bot., Ohio State Univ., Columbus, Ohio.

Dodge, Chas. W., M. Sc., (Biol.) Prof. Biol., Univ. of Rochester, Rochester, N. Y. *Zool., Gen. Biol.*

Dodge, E. A., 546 Bay St., Santa Cruz, Calif. *Lepid.*

Dodge, F. Waldo, 127 Orris St., Melrose Highlands, Mass. *Collect and ex. general N. A. Coleoptera. Ex. N. A. Dytiscidae for exotic Dytiscidae.*

Dodge, Raynal, Newburyport, Mass. *Bot.*

Dodson, Wm. R., Dean of College of Agric. and Dir. Expr. Sta., Louisiana State Univ., Baton Rouge, La. *Bot., Agric.*

Doe, Chas. E., 341 So. Water St., Providence, R. I. *Orn., Ool.*

Doertenbach, W. F., 622 N. Main St., Pueblo, Colo. *Zool., Ent., Lepid., Orn., Ool.*

Dohme, Alfred R. L., B. A., Ph. D., (John Hopkins) 301-307 W. Pratt St., Baltimore, Md. *Bot: Phaen. Plants, Chem., Geol., Min., Palaeo., Crystall., Metall., Phys., Elect., Photog., Mic.*

Dole, E. J., Asst. Prof. Bot., 22 Converse Court, Burlington, Vt. *Bot., Plant Physiol.*

Doll, Jacob, 459 Onderdonk Ave., Brooklyn, N. Y. *Lepid. C.*

Domoney, A. E., 1491 N. High St., Columbus, Ohio. *Arch.*

Donehey, Vic, Governor of Ohio, Columbus, Ohio. *Indian remains and traditions, Geol. formations, wild life generally.*

Donovan, John, 22 Dillingham St., Dorchester, Mass. *Butterflies of world. Ex. buy or sell.*

Dorety, Sister Helen Angela, Ph. D., College of St. Elizabeth, Convent Station, N. J. *Experimental Morphology.*

Dormon, Miss Caroline C., Saline, La. *Forestry, Native plants of La. C. sell.*

Dorn, Richard, Pres. Am. Aquarium Soc., 7 Norman Rd., Upper Montclair, N. J. *Importation of rare and new aquarium fish, etc.*

Dorsey, L. M., Jr., 2219 N. 19th St., Philadelphia, Pa. *Ent.*

Doten, Samuel Bradford, Dir. Nevada Agric. Expr. Sta., Reno, Nevada.

Douglass, Andrew Elliott, F. R. A. S., F. A. A. S., Tucson, Ariz. *Astro., Meteo., High Mt. Climbing, Tree Growth and Climate.*

Douglass, Earl, M. S., Asst. in Research Field and Laboratory, Carnegie Mus., Pittsburg, Pa. *Geol. and Vert. Palaeo.*

Dow, Robert P., B. A., 15 Broad St., New York City. Sec'y. and Editor Bulletin, Brooklyn Entomological Society. *Coleopt., Bibliography. C.*

Dowell, Phillip, M. A., Ph. D., 86 Bond St., Port Chester, N. Y. *Ferns. C. of Herbarium specimens and books on Natural History.*

Dowling, Donaldson B., B. A. Sc., D. Sc., F. R. S. C., Geol. Surv., Dept. of Mines, Ottawa, Can. *Strat. Geol., Econ. of coal, air and gas.*

Downer, Luther M., 723 Delaware Ave., Buffalo, N. Y. *Ent., Lepid., Coleopt. C. Ex.*

Downes, W., Asst. Ent., Entom. Lab., Parliament Bldgs., Victoria, B. C. *Can. Hemiptera. C. Ex.*

Dox, Arthur W., Ph. D., Chemist, Iowa Agric. Exp. Sta., Ames, Iowa. *Minerals containing organic acids.*

Dozier, H. L., Entomologist, Gulf Coast Citrus Exchange, Mobile, Ala. *Ent.: Homoptera. C. Ex.*

Drake, F. J., East Brookfield, Mass. *Arch.*

Drake, J. Francis, LL. B., D. M. D., 685 Elliott Ave., Portland, Ore. *Bot., Metall., Min.*

Drake, Carl J., State University, Columbus, Ohio. *Hemipt.*

Dranga, Theodore T., P. O. 2214, Honolulu, Hawaii. Con. C. Ex.

Dressel, Evan C., Beloit, Ohio. *Birds, insects.* C. Ex.

Drew, Gilman Arthur, Ph. D., Marine Biol. Lab., Woods Hole, Mass. *Biol., Zool., Emb.*

Drews, Fred C., 1026 East 17th St. N., Portland, Ore. *Min. Specimens, particularly well formed crystals in groups or singles.* C. Ex. for choice ore, agates. Buy.

Drury, Miss E. M., 45 Munroe St., Roxbury, Mass. *Bot.*

Dubois, Wilbur, 5723 Arnsby Pl., Madisonville, Cincinnati, Ohio. *Hort.*

Ducharme, Gaspard, 1145 S. Viator, Outremont, near Montreal, Can. *Bot.*

Dudgeon, L. W., Mgr. Elite Gingseng Nursery, Cane Valley, Ky. *The culture of American Gingseng and Golden Seal.*

Dudley, John E., Jr., U. S. Ent. Lab., 1532 Univ. Ave., Madison, Wis. *Ent.: Coleopt.* Ex. Government and State Ent. Pubs.

Dudley, Perien S., Buckfield, Me. Manufacturer of fine Lapidary Machinery for foot and power. Wish to get in touch with dealers and miners of Precious Stones in any and all parts of the world. Wish to buy stones and will exchange cut stones and lapidary machinery for any stones I can use. Will pay cash for all gem stones I desire. Am a miner of stones myself. Have rare minerals for Museums and Universities.

Duffner, O. C., Paradise, Ariz. *Lepid.* Sells.

Dugan, Raymond Smith, Prof. of Astronomy, Observatory House, Princeton, N. J.

Duggar, Benj. M., A.M., Ph.D., Research Prof. of Plant Physiology, Missouri Bot. Garden, and Washington Univ., St. Louis, Mo. *Plant Physiol. and Fungus Diseases of Plants. Nitrogen-fixing organisms and cultures of parasitic Oomycetes desired.*

Du Mond, F. L., Kent Sci. Mus., Grand Rapids, Mich. *Orn., Trees, Bird photog.*

Dunbar, Carl Owen, Ph.D., Asst. Prof. Historical Geol. and Asst. Cur. Invert. Palaeo., Yale Univ., Peabody Mus., Yale Univ., New Haven, Conn. *Stratigraphy, Palaeo.*

Dunbar, Frances J., A.B., Physiology Bldg., Univ. of Mich., Ann Arbor, Mich. *Lantern Slides, Reptiles, Herpetology.*

Dunbar, Henry F., Wake Robin Farm, Ruby, N. Y. *Bot.*

Duncan, Carl Dudley, B.A., P. O. Box 4, Stanford University, Calif. *Hymenoptera.* Wishes to ex. aculeata from

anywhere.

Duncan, Douglas K., P. O. Box 412, Globe, Ariz. *Coleopt. of families, Cicindelidae, Scarabaeidae, Buprestidae, Cerambycidae, Elateridae.* C. Ex. Will collect other groups for exchange in above families.

Duncan, George T., 63 Cottage St., Rochester, N. Y. Emp. at Crosley Firsian Fur Co., Rochester, N. Y.

Dunham, Mrs. Elizabeth M., 22 Birch Road, Wellesley, Mass. *Bryology.* C.

Dunlevy, Robert B., A.M., 302 College St., Winfield, Kans. *Geol.* C. Ex.

Dunn, E. R., Ph.D., Dept. Zool., Smith Coll., Northampton, Mass. *Amphibians and Reptiles.*

Dunn, L. H., Int. Health Board, 61 Broadway, New York City. *Ent.*

Du Porte, E. Melville, Lecturer in Ent. and Zool., Macdonald College, Quebec, Can. *Ent., Protozoology, Agric. and Med. Ent. and Protozoology, Insect ecology.*

Dupret, Rev. H., Seminary of Philos., Montreal, P. Q. *Mosses, Hepaticas, Lichens.* C. Ex.

Durand, Dr. Wm., 130 W. State St., Marshall, Mich. *Indian Relics.*

Dusham, E. H., Prof. of Ent., Penn. State College, State College, Pa. *Ent.*

Dutton, D. Lewis, Brandon, R. D. 2, Vt. *N. E. Botany and Mammals.* 3500 Bot. spec. Ex. Am particularly interested in mosses, hepaticæ and lichens. Ex. landscape and plant photos.

Duval, C. W., Tulare University, New Orleans, La. *Pathology and Bacteriology.*

Duval, Hugh H., Bastrop, Tex. *Paleo., Ent., Bot.* C. Ex. and buy.

Duvel, Dr. J. W. T., Grain Exchange Supervisor, U. S. Dept. of Agric., Board of Trade, Chicago, Ill. Esp. interested in types and classes of grains from different countries, and establishing standards for grading commercial grains. C. of plants and grains.

Dwight, Jonathan, M.D., 43 West 70th St., New York, N. Y. *Orn.* C. Birdskins.

Dyar, Dr. Harrison G., Custodian of Lepidoptera, National Museum, Washington, D. C. *Ent.*

Dyke, Dr. Edwin C., Dept. of Ent., Univ. of Calif., Berkeley Calif. *Coleopt., esp. Carabidae, Elateridae and Forest insects.* C. Ex.

Dymond, John Richardson, Asst. Prof. Syst. Zool., Univ. of Toronto, Royal Ont. Mus. of Zool., Toronto, Can. *Syst. Zool.*

Eames, Edw. A., 155 Bryant St., Buffalo, N. Y. *Hardy*

Native Orchids.

Eames, Dr. Edwin H., 540 State St., Bridgeport, Conn.
Orn. Desires Phæn. and Vasc. Crypt. from Eastern
N. A. C. Ex.

Earl, Thomas M., 593 E. Spring St., Columbus, Ohio. *Arch.*,
Con., *Tax.*, *Orn.* C. Ex.

East, Prof. E. M., 87 Robinwood Ave., Jamaica Plain, Mass.
Bot.

Eastman, Francis B., Lt. Colonel, U. S. A., Retired, P. O.
Box 334, Baltimore, Md. *Orn.*, *Ool.*

Eastman, Fred, 2628 Dodge St., Omaha, Nebr. *Bot.* C. Ex.
Large stock of duplicates.

Eastman, Miss Helen, Wells River, Vt. *Bot. Painting.*
Author of "N. E. Ferns and Their Common Allies."

Easton, Norman S., 458 High St., Fall River, Mass. *Coleopt.*
C. Ex.

Eastwood, Miss Alice, Cur. Herbarium, Golden Gate Park,
Calif. Acad. of Sci., San Francisco, Calif. *Bot.*

Eaton, D. H., 318 East 4th St., Cincinnati, Ohio. *Palæo.*,
Marine Zool., *Con.* C. Ex.

Eaton, Elon Howard, Prof. of Biol., Hobart Coll., Geneva,
N. Y. *Birds of N. Y.*

Eaton, George Francis, Ph.D., Sec. Conn. Acad. of Arts and
Sci., 80 Sachem St., New Haven, Conn. *Osteol.*

Eaton, Howard O., 428 No. Lake St., Madison, Wis. *Ast.*;
Variable Stars.

Eaton, Richard J., 11 Elm St., Concord, Mass. *Bot.*, *Geol.*

Eaton, Scott H., Lawrenceville, Ill. *Birds*, *Fish*.

Ebeling, A. W., B.S., M.D., Prof. Nat. Sci., Central Wes-
leyan Coll., Warrenton, Mo. Ex.

Eby, James Brian, Assoc. Geol., U. S. Geol. Surv., Wash-
ington, D. C. *Geol.*

Eccles, Robert G., Phar.D., M.D., 681 Tenth St., Brooklyn,
N. Y. Fellow Amer. Assoc. Adv. Sci. *Phæn.* *Bot.*,
Org. Chem. Esp. interested in Natural Selection. C.
of flowering plants. Ex. reprints with Evolutionists
and Parasitologists.

Eddy, C. O., Assoc. Prof. Ent., Clemson College, S. C. *Ent.*

Edminster, Frank, Jr., 512 Stewart Ave., Ithaca, N. Y.

Edquist, Joshua A., Prof. of Nat. Sciences, Gustavus Adol-
phus Coll., St. Peter, Minn. *Bot.*, *Zool.*, *Geol.*

Edson, John M., Bellingham, R. D. 2, Wash. *Mam.*, *Orn.*
Tax. Ex.

Edson, Wm. L. G. In charge Herbarium, Park Department,
Rochester, N. Y. *Bird study*, *Bot.*, *Ichthyol.*, *Wild Life.*
Ex. photos.

Edwards, Ira, Cur. Dept. Geol., Public Museum, Milwaukee,
Wis. *Palæo.*, *Geol.*, *Min.*

Edwards, S. F., M.S., Dir. The Edwards Laboratories, Lansing, Mich. *Soil Bacteriology, Biol. products.*

Eggleston, Willard W., B.S., Asst. Bot., Dept. of Agric., Washington, D. C. *Bot., Poison Plants, Pomaecæ.*

Ehlers, Geo. M., Asst. Prof. of Geol., Univ. of Mich., Ann Arbor, Mich. *Invert. Palæo., Palæo., Strat. C.*

Ehrenfeld, Chas. H., A.M., Ph.D., Pres. and Prof. Chem. and Phys., York Collegiate Inst., York, Pa. *Chem., Min.*

Ehrmann, Geo. Alex., 2314 Sarah St., Pittsburg, Pa. *Macro Lepid., of the world.* C. Ex. Also desire Papilionidæ from all parts of the world.

Eifrig, C. W. G., 504 Monroe Ave., River Forest, Ill. *Orn., Mam.. Bot.* C. Ex.

Eigenmann, Carl, Ph.D., Dean of Graduate School, Prof. of Zool., Indiana Univ., Bloomington, Ind. *Emb., Ichth.* C. Ex.

Eigenmann, Rosa Smith, Bloomington, Ind. *Ichth.*

Eisen, Gustav, Ph.D., Calif. Acad. of Sci., San Francisco, Calif. *Arch., Oligochaëta, Protozoa, Cytol., Worms.* C. Ex.

Ekblaw, George E., State Geol., Survey, Urbana, Ill., *Geol., Orn.*

Ekblau, S. E., 233 W. Orleans, Paxton, Ill. *Orn.*

Eldred, Fred A., 25 Westford Ave., Springfield, Mass.

Eliot, Willard Ayres, 1011 Thurman St., Portland, Ore. *Orn., Gen. Nat. Hist.*

Elliott, Charlotte, Lab. of Plant Pathol., Dept. of Agric., Washington, D.C. *Plant Pathol.*

Elliott, Jabez Henry, M.B., Port Carling, Muskoka Lakes, Ont., Can. *Zool.*

Elliott, Theodore S., 5733 Kenwood Ave., Chicago, Ill. *Bot., Mic.*

Ellsworth, H. V., B.A., M.A., Ph.D., Geol. Survey, Ottawa, Can. *Min., Geol., Radioactive minerals and minerals of the rare elements.*

Elrod, Moeton J., Prof. of Biol., Dir. Biol. Sta., State Univ., 205 So. 5th St. E., Missoula, Mont. *Zool., Ecol., Distribution.*

Ells, Geo. P., Norwalk, Conn. *Orn., Bot., Science in general.*

Ellsworth, Addison, Johnson City, N. Y. *Lepid., Bot., Insects of all orders, Lepid. of the world.* Solicits correspondence and exchange from everywhere.

Embody, George C., Ph.D., Prof. of Agric., Cornell Univ., Ithaca, N. Y. *Crustacea and Fish.*

Emerson, Alfred Edwards, Asst. Prof. of Ecology, Dept. of Zool., Univ. of Pittsburgh, Pittsburgh, Pa. *Ent., Orn., Ecol., esp. Termites.*

Emerson, Benjamin K., Ph.D., LL.D., Amherst Coll., Amherst, Mass. *Geol.*

Emerson, Phillip Cabot, Jr., High School, Lynn, Mass. *Geog., Nature Study, and Their Related Sciences.* Ex. of all kinds to order for specimens and collections for school museum.

Emerson, Sterling H., Dept. of Bot., Univ. of Mich., Ann Arbor, Mich. *Ent.* C. Ex. and buy. Rhyncoph. of East. U. S. for Rhyncoph. preferably Western and Exotic.

Emerson, Waldo Otto, (Artist) "Palm Cottage," R. D. 1, Hayward, Alameda Co., Calif. *Orn. books and separates, and Photographic Bird-Life.*

Emerton, James H., 30 Ipswich St., Boston, Mass. *N. Am. Spiders.*

Emery, Alden H., S. S. Bureau of Mines, Exp. Sta., Pittsburgh, Pa. *Geol.*

Emery, Dr. W. O., 2232 Cathedral Ave. N. W., Washington, D. C. *Indian Relics. "Prehistoric Terrestrial Orchids."* C. Ex. and buy.

Emig, W. H., Prof. Bot., Univ. of Pittsburgh, Pittsburgh, Engberg, C. C., Executive Dean, Univ. of Neb., Lincoln, Neb. *Con.*

Engel, Henry, 750 Ensign Ave., Pittsburg, Pa. *Lepid.* C. Engle, Earl T., Inst. in Zool., Univ. of Colo., Boulder, Colo. *Mammals.* C. Ex.

Englehardt, Geo. Paul, Cur. Dept. Nat. Sci., Mus. of Brooklyn Inst. of Arts and Sciences, Brooklyn, N. Y. *Ent., Marine Invert.*

English, George Letchworth, Mineralogist of Wards Nat. Sci. Establishment, Rochester, N. Y. *Min., Mic.* C. Ex.

Erb, Herman, 925 Hatch Ave., Woodhaven, L. I., N. Y. *Sphingidae. Catocala, Exotic Papilios.* C. Ex. and buy. Offernative specimens mounted or pinned.

Erskine, J. S., c/o United Fruit Co., Tela, Honduras, Cent. Am. Birds, esp. of C. A. and W. Sud. Arch. and native customs of C. A.

Essary, Samuel H., Univ. of Tenn., Tenn. *Gen. Bot., Plant Breeding and Improvement.*

Essenberg, (Mrs.) Christine, Scripps Inst., La Jolla, Calif. *Syst. Zool., Dist. and Expr. Zool.*

Essene, Mrs. Anna, 3421 Longfellow Ave. S., Minneapolis, Minn. *Ent.*

Essig, E. O., Assoc. Prof. of Ent., Div. of Ent., Univ. of Calif., Berkeley, Calif. *Econ. Ent.*

Esterly, Calvin O., Prof. Biol., Occidental Coll., Los Angeles, Calif.; Zoologist Scripps Inst. for Biol. Research, La Jolla, Calif. *Behavior and movements of Marine*

Animals.

Evans, Prof. Alex W., 180 Livingston St., New Haven, Conn. *Bot.*

Evans, Frank C., Crawfordsville, Ind. *Orn.*

Evans, Herbert McLean, Prof. Anat., 2617 College Ave., Berkeley, Calif. *Anat., Emb., Hist.*

Evans, Walter H., U. S. Dept. of Agric., Washington, D. C. *Phan., Physiol., Pathol.*

Evermann, Dr. B. Warren, Calif. Aca. Sci., San Francisco, Calif. Dir. of the Museum and the Steinard Aquarium.

Ewell, Marshall D., A.M., M.D., LL.D., 749 Tate Ave., Memphis, Tenn. *Mic.*

Ewing, H. E., U. S. Bureau of Ent., Washington, D. C.

Ewing, Henry Ellsworth, Asst. Prof. Iowa State Coll., 509 Welch Ave. Ames, Iowa. *Parasitism.*

Ewing, James, Asst. Prof. Bot., Carleton Coll., Northfield, Minn. *Bot.*

Eycleshymer, Albert C., Prof. Anat. and Head of the Dept. and Dean of the Coll. of Med., Univ. of Ill., Chicago, Ill.

Eyer, E. J., Dept. Ent., Cornell Univ., Ithaca, N. Y. *Ent.*

Eyer, George A., 57 William St., New York City. *Everything pertaining to and about wild fowl.*

Eyer, John R., 123 Salem Ave., Dayton, Ohio. *Micro-lepid. families comprising the heterogeneous group Tineoidae.*

Eyer, John Robert, Field Lab., Penn. Dept. of Agric., North East, Pa. *Small fruit and vegetable insects, Micro-lepid. C. Ex. and buy.*

Ezekiel, Walter N., Asst. Plant Pathol., Md. Agric. Exp. Sta., College Park, Md. *Fruit diseases, esp. Sclerotinia.*

Faber, Chas. L., 2732 Fober St., Cincinnati, Ohio. *Palæo.*

Fair, Henry, City Hall, Spokane, Wash. *Min. C. Ex.*

Fairbanks, Cornelia Taylor, St. Johnsbury, Vt. *Birds.*

Fairbanks, Ernest E., 25 Irving St., Somerville, Mass. *Min.*

Fairbanks Museum of Natural Science, St. Johnsbury, Vt. *General Collections, Herb. spec. for Ex.*

Fairchild, David M., Sc., D.Sc., Dept. of Agric., Foreign Seed and Plant Introduction, Washington, D. C. *Introduction of Economic Plants in America.*

Fairchild, Prof. Herman L., Emer. Prof. Geol., Univ. of Rochester, Rochester, N. Y. *Geol.*

Fairman, Charles E., A.M., M.D., Lyndonville, N. Y. *Mycol. C.*

Fall, H. C., Tyngsboro, Mass. *Coleopt., Lepid. C. Ex. in Coleopt.*

Fairbault, E. Rodolphe, B.A.S., C.E., F.R.S.C., Geol. Surv., Ottawa, Can. *Structural and Econ. Geology in Nova*

Scotia.
Faris, James, Brooklyn Bot. Garden, Brooklyn, N. Y. *Bot.: All Phases of Plant Life.*
Faris, R. L., Asst. Dir. U. S. Coast and Geodetic Survey, Washington, D. C.
Farley, John A., 52 Cedar St., Malden, Mass. *Orn.*
Farley, John M., Jr., 49 So. Broadway, White Plains, N. Y. *Gen. Ent., Hemiptera.*
Farr, Marcus S., Sc.D., Asst. Prof., Preceptor in Geol., Princeton Univ., 2 Vandeventer Ave., Princeton, N. J. *Geol., Paleo., Comp. Osteol., Orn., Philately.*
Farrar, E. R., So. Lincoln, Mass. *Bot., Ent.*
Farrell, Sister Bernard, Teacher of Gen. Sci. and Biology, Cardone Acad., Georgetown, Ky. *Ent., Herpet.*
Farrell, W., Wellington, Ont., Can. *Coleopt., Lepid. C.*
Farrer, Capt. W. I., Rounton Garage, Orange, Va. (R.R.2) *Am. L.F.W. Moll. esp. Unios and Melanions. C. Ex. Buy Unios.*
Farrington, Oliver C., Ph.D., Field Mus. Nat. Hist., Chicago, Ill. *Geol., Min., Meteorites.*
Farwell, Oliver A., Cur. Herb. of Park, Davis & Co., Detroit, Mich., 271 Smith St. *Systematic Bot., Cormophytes.*
Fassett, Norman C., 84 Perkins Hall, Cambridge, Mass. *Bot.*
Fasten, Nathan, B.S., Ph.D., Prof. Zool., Corvallis, Ore. *Cell problems, Parasites of Fishes.*
Fattig, P. W., 633 Euclid Ave., Valley City, N. D. *Ent., Coleopt., Hymen., Dipt., Hemipt., Arthrop., Lepid., Odonata.*
Fawcett, H. S., Prof. Plant Pathol., Citrus Exp. Sta., Riverside, Calif.
Fay, S. Prescott, 2 Otis Pl., Boston, Mass. *Birds. Early books on exploration and travel in Am. Wish to buy 3rd vol. (Fish) "Fauna Americana."*
Faull, J. H., Ph.D., Dept. of Bot., Univ. of Toronto, Ont., Can. *Fungi.*
Faxon, Walter, Cur. of Crust. and Moll., Mus. Comp. Zool., Cambridge, Mass. Residence: Lexington, Mass. *Gen. Zool.*
Fay, Thomas H., 30 Camp St., Cambridge, Mass. *Gcol., Min., Orn.*
Feiler, Matthews, 26 East 9th St., Chicago, Ill. *N. A. Lepid. C. Ex. and buy.*
Felix, E. L., Univ. of Tenn., Knoxville, Tenn. *Plant Pathol.*
Fellows, Dana W., M.D., 7671 Amboy Rd., Tottenville, S. I., N. Y. *Phæn. Bot., Ferns. C.*

Felt, E. P., State Ent., State Mus., Albany, N. Y. *Gall Midges. Econ. and Gen. Ent.* Ex. or buy.

Fenn, Roger C., Middlesex School, Concord, Mass. *Gen. Nat. Hist.* C. Ex. and buy.

Fenneman, Nevin M., Prof. Geol., Univ. of Cincinnati, Cincinnati, Ohio. Ex. Fossils and land and fresh water shells for fossils and minerals. Choice Calcite and Borite for Crystallographic study.

Fenner, Clarence M., Petrologist, Geophysical Laboratory, Washington, D. C. *Geol., Min.*

Fenstermaker, E. L., 811 Columbia Ave., Lancaster, Pa. *Indian Relics.* C.

Fenyes, Adalbert, M.D., 170 N. Orange Grove Ave., Pasadena, Calif. *Coleopt.*

Ferguson, Alexander McGowen, M.Sc., Sherman, Texas. *Tex. Plants.*

Ferguson, Margaret C., Ph.D., Prof. of Bot. and Dir. of Bot. Dept., Wellesley Coll., Wellesley, Mass. *Comp. Morph., Emb., Cytology, Genetics.* Esp. int. in making additions to the Wellesley Coll. Herbarium. C. of Wellesley flora. Ex. specially for N. E. plants.

Fernald, Henry T., Ph.D., Prof. Ent., Mass. Agric. Coll., Amherst, Mass. *Econ. Ent., Sphecidæ.* C. Ex.

Fernald, M. L., Gray Herbarium of Harvard Univ., Bot. Garden, Cambridge, Mass. *Phæn., Ferns, Geog. Dist., Flora of N. E. and Eastern Brit. Amer.* C.

Ferrier, Walter F., D.Sc., B.Sc., F.G.S. (London) Mining Engineer and Geologist, 52 St. Andrews Garden, Toronto, Ont., Can. *Min., Petrog.* C. Ex.

Ferris, Prof. G. F., Stanford Univ., Calif. *Mallophaga, Anoplura, Diptera, Pupipara, Coccidae, Psyllidae.*

Ferris, Harry Burr, M.D., Prof. Anat., Yale University, 395 Ronan, New Haven, Conn.

Ferris, Mrs. Roxana S., Stanford Univ., Calif. *Bot.*

Ferriss, James H., West Park, Joliet, Ill. *Con., Ferns, Cacti, and Am. plants.* C. Ex. or buy.

Fewkes, Jesse Walter, Ph.D., LL.D., Chief, Bureau of Am. Ethnology, Forest Glen, Md. *Ethnology, Zool.*

Fiedler, Henry George, Dealer in book on Nat. Hist., 18 Vesey St., New York City. *Books and periodicals on Nat. Hist. and Science.* Will buy whole libraries or single items. Send for catalog.

Field, Geo. Wilton, Cosmos Club, Washington, D. C. In charge Research. *Zool.* C. Ex.

Field, Virgil W., 2945 So. 9th East St., Salt Lake City, Utah. *Min., Crystal. and allied sciences.* Ex. or buy rare minerals.

Fillion, Prof. Francis, 106 East 19th St., New York City.

Ent.

Fink, Bruce, Prof. Bot., Miami Univ., 110 East Collins St., Oxford, Ohio. *Ascomycetes*. C. Ex.

Finley, Chas. W., Prof. Biol. and Agric., State Normal Sch., Macomb, Ill. *Ecol.*

Fish, Pierre A., D.Sc., D.V.M., Ithaca, N. Y. *Veterinary Physiol.*

Fischer, David B., 1122 Jackson Ave., New Orleans, La. *Orn.*

Fischer, Philip, 514 Dodge St., Buffalo, N. Y. *Lepid.:* *Papilio, Sphingidae, Catacalae*. C. Ex.

Fish, Charles J., Sc.M., Ph.D., U. S. Bureau of Fisheries, Woods Hole, Mass. *Plankton, Diatoms, Copepods.*

Fish, Harold D., Prof. of Zool. and Head of the Dept. of Zool., Univ. of Pittsburgh, Research Assoc. of the Carnegie Inst. of Washington, Univ. of Pittsburgh, Pa. *Genetics, Evolution.*

Fish, Marie P., U. S. Bureau of Fisheries, Woods Hole, Mass. *Emb. and seasonal dist. of larval fish.*

Fisher, A. K., M.D., Dept. of Agric., Washington, D. C. *Orn., Vert., Game Conservation.*

Fisher D. J., Rosenwald Hall, Univ. of Chicago, Chicago, Ill. *Geol. Min.*

Fisher, Elizabeth Florette, Prof. of Geol. and Geog., Wellesley Coll., Wellesley, Mass. *Geol., Geog. Conserv. of Nat. Resources.*

Fisher, Geo. Clyde, Ph.D., Cur. of Visual Inst., Am. Mus. of Nat. Hist., New York City. *Bot., Orn., Mam.*

Fisher, G. S., Finleyville, Pa. *Arch.*

Fisher, John H., Rec. Sec., N. Y. Mic. Soc., 9916 Fishkill St., Hollis, L. I., N. Y. *Optics, Photog. Mic., Physics.*

Fisher, Martin Luther, Prof. of Agronomy, Head Dept. of Gerom., Asst. Dean, School of Agric., Purdue Univ., West Lafayette, Ind. *Birds and nature study generally.*

Fisher, Sydney G., 688 Drexel Bldg., Philadelphia, Pa. Amateur Naturalist.

Fisher, Dr. Walter K., Ph.D., Fellow Amer. Ornithologists Union, Dir. of Hopkins Marine Sta. of Stanford Univ., Pacific Grove, Calif. *Orn., Echinodermata.*

Fisher, W. S., U. S. Nat. Mus., Washington, D. C. *Coleopt., Buprestidae and Ceramb. of the world.* Material wanted and offered in ex. Will name material in these.

Fiss, George W., 1911 Green St., Philadelphia, Pa. *Mic., Min. C.*

Fitts, Wm. L., 407 Union St., Springfield, Mass. *Min., Mic. C. Ex.*

Fitzpatrick, F. L., Asst. Prof. Biol., Colo. State Teachers Coll., Greeley, Colo. *Econ. Zool., Orn.*

Fitzpatrick, T. J., Asst. Prof. Bot., Univ. of Neb., Sta. A. Neb. Coll. of *Flowering Plants, Ferns, Mosses.*

Flagg, Kenyon P., Zool. Lab., Cornell Univ., Ithaca, N. Y. *Exper. Zool.*

Fleming, James H., 267 Rusholme Road, Toronto, Ont., Can. *Orn. Colls. bought. C.*

Fletcher, Frank C., 1900 Third St. N. E., Minneapolis, Minn. *Coleopt.: North, South and Central Am. Tenebrionidae and Lampyridæ (Lyctidæ, Lampyridæ, Cantharidae, Phengodidae).* Wil buy and will ex. in other Coleoptera families for these.

Fletcher, Laurence B., 73 Water St., Boston, Mass. *Bird banding.* Sec. of the N. E. Banding Assoc.

Flint, George Marsh, 37 Mt. Vernon St., Boston, Mass. *Geol., Min., Flame Color Screens and thin rock sections.*

Flint, W. P., State Nat. Hist., Surv., Entomology Bldg., Urbana, Ill. *Ent.*

Florida State Museum, Univ. of Florida, Gainesville, Fla.

Floyd, F. G., 52 Farquhar St., Roslindale, Mass. *Bot.*

Floyd, Rolfe, 114 East 54th St., New York, N. Y. *Phys., Zool.*

Fluke, C. L., Univ. of Wis., Madison, Wis. *Econ. Ent.*

Flynn, Mrs. Nellie F., 251 S. Willard St., Burlington, Vt. *Bot. C. Ex.*

Foerste, Aug. F., Ph.D., 129 Wroe Ave., Dayton, Ohio. *Ordovician and Silurian Geol., Palæo. Special Study of Cincinnati Anticlinal, Ordovician and Silurian Cephalopoda and Cystids, Morph. of Phæn. Plants.* C. Ex.

Fogg, John Milton, Jr., Asst. Inst. Bot., Univ. of Penn., Philadelphia, Pa. *Flowering plants, ferns, bryophytes and algae.* C. Ex.

Fogg, Lloyd C., Dartmouth Coll., Hanover, N. H. *Zool.*

Fohs, F. Julius, Tulsa, Okla. *Geol.*

Folsom, Donald, Asst., Bot. Dept., Univ. of Minn., Minneapolis, Minn. *Bot.*

Folsom, J. W., S.D., Homer, Ill. *Gen. Ent., Collembola, Thysanura.* C. Ex.

Forbes, Fayette F., Brookline, Mass. *Bot., Phæn. and Crypt. Plants.* C. Ex. Willows and sedges especially desired.

Forbes, R. D., U. S. Forest Service, New Orleans, La. *Bot., Forestry.*

Forbes, Stephen A., Chief, Ill. State Nat. Hist. Surv., Urbana, Ill. *Ent., Ecol.*

Forbes, W. T. M., Inst. in Ent., Roberts Hall, Cornell Univ.,

Ithaca, N. Y. Permanent Add: 23 Trowbridge Rd., Worcester, Mass. *Lepid.* C. Ex. and buy.

Forbush, Edward Howe, Dir. Div. of Orn., Mass. Dept. of Agric., Room 136 State House, Boston, Mass. *Orn., Mam.*

Ford, Mrs. M. L., 86 Chestnut St., Oneonta, N. Y. *Orn., Bot.*

Ford, Norma H. C., B.A., Ph.D., Inst. in Zool., Dept. of Biol. Univ. of Toronto, Toronto, Ont., Can. *Insect Morphology.*

Ford, R. W., Bristol, Conn. *Orn., Ool.*

Ford, William Ebenezer, Ph.B., Ph.D., Prof. Min., Yale Univ., 43 Lincoln St., New Haven, Conn. *Min.*

Foster, George S., M.D., 967 Elm St., Manchester, N. H. *Orn.*

Foster, Prof. John Harold, Texas A. and M. College, State Forester of Texas, College Station, Tex. *Forestry.*

Foulds, Harold, 226 N. Adams St., Carthage, Ill. *Bot., Mam.*

Fountain, G. H., LL.B., 936 West 7th St., Plainfield, N. J. *Palaeo., Glacial Geol., Arch.* C. Ex.

Fouts, R. M., 730 Quebec St. N. W., Washington, D. C. *Hymen., Serphoidæ.* Will determine, ex. or buy any Serphoidæ material.

Fowler, Henry W., Acad. of Nat. Sci., Philadelphia, Pa. *Fishes, Amphibians, Reptiles.*

Fox, Charles L., 1020 Balfour Bldg., California St., San Francisco, Calif. *Hymenopt.*

Fox, F., 1141 Greene Ave., Brooklyn, N. Y. *Ent.*

Fox, Geo. R., Pres. Mich. State Arch. Soc., Three Oaks, Mich. *Anth., Arch.*

Fox, Henry, Prof. of Biol., Mercer Univ., Macon, Ga. *Gen. Nat. Hist. Eup. Orthoptera.* Problems of Geog. dist., racial segregation, and intergradation. C. Ex.

Fox, Henry, U. S. Ent. Laboratory, Clarksville, Tenn. *Grasshoppers, June beetles and allies.* C. Ex.

Fox, William J., Acad. Nat. Sci., Philadelphia, Pa. *Hymenopt., Bibliog. of Nat. Hist.*

Foye, Mrs. L. A., 80 Berkeley St., Lawrence, Mass. *Bot., Malacol.*

Fracker, Stanley B., Ph.D., State Entomologist, Madison, Wis. *Ent.* C. Ex. of insects and larvae.

Francis, Charles E., 1407 Hudson St., Elmhurst, Ind. *Prehistoric stone implements.* C. Ex. and buy.

Francis, Harry Thorton, B.S., 223 E. Main St., Titusville, Pa. *Lepid. and Coleopt. from all parts of world.* C. Ex. or sell. Would like to collect for institutions or private parties in Florida, Central or So. Am.

Franck, Geo. A., Manager Carpcapsa, 345 No. Goodman St., Rochester, N. Y. *Insects of Econ. importance.* Buy for cash.

Frandsen, Peter, Prof. Biol., Univ. of Nev., Reno, Nev. *Comp. Neurology.* Would like separates on nervous system, particularly of worms.

Frankenfield, Chas. L., 118 Prospect St., Pontiac, Mich. *Ent.: Beetles.*

Fraser, Charles McLean, Ph.D., F.R.S.C., Cur. Canadian Biol. Sta., Prof. Zool., Univ. of B. C., Nanaimo, B. C. *Marine Zool., Life History of Fishes.* C. of Hydroids.

Frazier, W. E., 11 Andrew St., Salem, Mass. *Lepid., Coleopt.* C. Ex. and sell. Desires especially Catocalæ of the world.

Frederick, G. W., 3029 Belmont Ave., Chicago, Ill. *Orn., Ool.* Bird skins and eggs bought, sold or ex.

Freeborn, Stanley B., Asst. Prof. of Ent., Univ. of Calif., Berkeley, Calif. *Culicidae, Animal Parasites.*

Freer, Ruskin S., Inst., in Bot., 95 Oak Hill Ave., Delaware, Ohio. *Plant Ecol.*

French, Ernst, Mystic, Conn. *Ent.*

French John C., Roulette, Pa. *Wild Life and Silviculture.*

Fretz, A. Henry, C.E., B.S., 400 Reeder St., Easton, Pa. Asst. in Geol., Lafayette College. *Geol.*

Fretz, John E., A.M., M.D., 114 No. Third St., Easton, Pa. *Zool., Anth.*

Friday, Frederick W., 2333 Westport Ave., Mt. Oliver Sta., Pittsburgh, Pa. *Lepid.* C. Ex. Will buy showy specimens, in lots. for art work.

Friedrich, Geo. W., 3029 Belmont Ave., Chicago, Ill. *Bird Skins, Ool.* C. Ex. buy or sell.

Fries, J. A., M.S., Asst. Dir. Inst. of Animal Nutrition, State Coll., Pa.

Frison, Theodore H., Ph.D., Nat. Hist. Bldg., Univ. of Ill., Urbana, Ill. *Hymen., Biol. of insects.*

Friesser, Julius, Chief Taxidermist, Field Mus. of Nat. Hist., Chicago, Ill.

Frost, Allen, c/o Trussell Mfg. Co., Poughkeepsie, N. Y. *Orn.*

Frost, Chas. A., C.E., 35 Henry St., Framingham, Mass. *N. A. Coleoptera.* C. Ex.

Frost, Edwin B., Williams Bay, Wisc. *Orn.*

Frost, H. B., Univ. of Calif., Citrus Expr. Sta., Grad. School of Trop. Agric., Riverside, Calif. *Assoc. Plant Breeder.*

Frost, P. A., Asst. Prof., Dept. of Zool., State College, Pa.

Frost, S. W., Dept. Ent., Cornell Univ., Ithaca, N. Y. *Ent.*

Frost, Wm. D., Prof. Agric. Bacteriol., Univ. of Wis., 1010 N. Grant St., Madison, Wisc. *Bacteriol.*

Frothingham, Earl Hazeltine, Dir. Appalachian Forest Expr. Sta., Forest Service, Asheville, N. C. *Forest of the Southern Appalachian Region.*

Frye, T. C., Prof. Bot., Univ., of Washington, Seattle, Wash. Dir. Puget Sound Biol. Sta. *Bot.*

Fryer, James Robert, Asst. Prof., Univ. of Alberta, Edmonton, Alta., Can. *Bot., Genetics.*

Fuertes, Louis Agassiz, Cornell Hgts., Ithaca, N. Y. *Orn. C.* of about 3500 birds used as models and study for Ornithological painting.

Fulda, O., Prof. "The Butterfly Store," 812 Broadway, New York City. All supplies for the Entomologist. (See advertisement.)

Fuller, Albert M., Asst. Cur. Bot., Public Museum, Milwaukee, Wis. *Taxanomy and Ecol., Phæn. Bot.*

Fuller, Arthur B., Taxidermist of Cleveland Mus. Nat. Hist., Cleveland, Ohio. *Tax.*

Fuller, E. D., 3421 Longfellow Ave., Minneapolis, Minn. *Goldfish, Water Gardening.*

Fuller, F. Wesley, West Quincy, Mass. *Geol., Min., Lapidary.* Precious Stones cut and polished. Souvenir pebbles from river and valley, etc., polished.

Fuller, Geo. D., Dept. of Botany, Univ. of Chicago, Chicago, Ill. *Plant Ecol., Plants, Trees, Plant associations.* C. of Photos.

Fuller, G. Whittier, The Elms, White River Junction, Vt. *Coleopt., Moths.* C. Ex.

Fuller, Henry C., B.S., 1348 Euclid St., Washington, D. C. *Orn., Bot.*

Fuller, Henry Frederick, M.A., F.S. Sc., Lawyer, 6023 Winthrop Ave., Edgewater, Chicago, Ill. *Polyzoa.* C.

Fullmer, Edward L., Prof. of Biology, Baldwin-Wallace College, Berea, Ohio. *Myxomycetes.* C.

Fulton, B. B., Assoc. Ent., Ore. Agric. Expr. Sta., Corvallis, Ore. *Orthoptera.* Ex.

Fulton, Harry L., 3903 W. 65th St., Chicago, Ill. *Orn., Gen. Zool.*

Funaro, Carl H. W., 1385 St. John Place, Brooklyn, N. Y. *Coleopt.*

Funkhouser, W. D., Prof. Zool., Univ. of Ky., 468 West 2nd St., Lexington, Ky. *Membracidæ.*

Gable, Charles H., B.Sc., P. O. Box 1077, San Antonio, Tex. *Ent.: Orthoptera.*

Gabrielson, Ira N., 515 P. O. Bldg., Portland, Ore. *Relation of Birds to Environment.*

Gage, Dr. Edw., Amherst, Mass. *Bacteriology.*

Gage, J. W., 1225 Glenlake Ave., Chicago, Ill. *Ent.*

Gage, R. B., Chem. Engineer, State Laboratory, Trenton,

N. J. C. E. to State Highway Dept. and Dept. of Conservation and Development. *Fine coll. of N. J. Min.*

Gage, Simon Henry, Prof. Emer., Histol. and Emb., Cornell Univ., Stimson Hall, Ithaca, N. Y. *Morphol. and Physiol. of Vert., Emb., Histol.*

Gager, Dr. C. Stuart, Dir. Brooklyn Botanic Garden, Brooklyn, N. Y. *Bot.*

Gahan, Arthur Burton, U. S. Dept. of Agric., Washington, D. C. *Ent.: Hymenoptera and Parasitica.*

Gaige, Frederick M., Mus. of Zool., Ann Arbor, Mich. *Ent.: Formicidae.* C. Buy Formicidæ. Formicidæ from all parts of the world, either mounted or in alcohol, preferably the latter. Offer N. or S. Am. formicidæ in ex. for insects of other orders.

Gaige, Helen Thompson, Mus. Zool., Ann Arbor, Mich. Asst. Cur., *Herpt., Amphibians.*

Gaige, R., Mus. of Zool., Univ. of Mich., Ann Arbor, Mich.

Gail, Floyd W., Prof. Bot., Univ. of Idaho, Moscow, Ida. *Bot.*

Galliver, Geo. A., M.D., Suffern, N. Y. *Astronomy and Physiology.*

Galloway, Beverly Thomas, Plant Pathol., Bureau of Plant Industry, U. S. Dept. of Agric., Washington, D. C. *Bot.*

Gallup, Anna B., Cur. Children's Mus., Bedford Park, Brooklyn, N. Y. *Bot., Zool., Min.*

Galvin, Annabel D., Soc. Nat. Hist., 1231 Elmwood Ave., Buffalo, N. Y.

Galvin, E. R., c/o Du Pont Co., Wilmington, Del. *Nat. Hist. Game conservation and propagation, Control of vermin which prey on song, game and insectivorous birds.*

Gamble, Dean La Feuer, B.S., Ph.D., 105 Bool St., Ithaca, N. Y. *Comp. Anat.*

Ganier, Albert F., C.E., 1221 17th Ave. South, Nashville, Tenn. *Orn., Ool., Tax. C.*

Gannon, Clell G., 515 Fourth St., Bismarck, N. D. *Orn., Nature Study and Painting.*

Ganong, Wm. Francis, Prof. Bot., Smith Coll., 305 Prospect Hgts., Northampton, Mass. *Plant Physiol. and Ecol., Bot. Education.*

Gardett, Mrs. H. C., 1427 Berkshire St., Los Angeles, Calif. *Birds.*

Gardner, Georgia Blanchard, 140 Gibson St., Canandaigua, N. Y. *Bot., Orn., particularly all outdoor studies.*

Gardner, Grace Brown, 33 Milk St., Nantucket, Mass. *Bot.*

Gardner, Julia A., Ph.D., Asst. in Palæo., John Hopkins Univ., Baltimore, Md. *Moll., Palæo.*

Gardner, D. M. W., Lafayette, Ind. *Birds, Fungi.*

Garleck, W. G., Asst. Ent., Vineland Station, Ont., Can. *Sawflies (Chalastogastra).*

Garman, Frederick, 212 12th Ave., Juniata, Pa. *Chem. of Metals, Coal, Steel, etc.*

Garman, Harrison, Prof. Ent., Univ. of Ky., State Ent., Head of Dept., Univ. of Ky. Expr. Sta., Lexington, Ky. *Cave animals, Con. Ent., Noctuidæ. C.*

Garman, Philip, Asst. Ent., Conn. Agric. Expr. Sta., New Haven, Conn. *Ent.: Odonata, Acarina.*

Garman, Samuel, Mus. Comp. Zool., Harvard Univ., Cambridge, Mass. *Ichthyol., Herpetol.*

Garnett, Richard T., 3600 Broadway, Oakland, Calif. *Buprestidae, Scarabeidae, Cincinnelidae.*

Garrett, C. B. D., Box 512, Cranbrook, B. C., Can. Coll. of 14,000. Ex. buy or sell, *Lepid., Diptera.* Ex. local insects of any order.

Garrett, C. H., 109 So. Burdick St., Kalamazoo, Mich. *Stamps.* C. of 20,000. Ex. buy or sell.

Garrison, David L., 65 Sterling St., W. Newton, Mass. *Orn.*

Gary, Lester B., Ph.D., 31 Berkeley Pl., Buffalo, N. Y. Head of Dept. of Biol. in Hutchinson-Central High School. Buy and sell shells, butterflies.

Gascoyne, Dr. Wm. J., Analyt. and Consulting Chem., 27 S. Gay St., Baltimore, Md. *Geol., Min., Chem., Metall. Mic., Photog. C.*

Gates, Frank C., Assoc. Prof. of Bot., Dept. Botany, K. S. A. C., Manhattan, Kans. *Ecol. and Taxonomic Bot.* Ex. Mich. or Kans. plants for miscellaneous plants, esp. grasses, weeds and poisonous plants.

Gates, Frank C., Ph.D., Prof. Biol., Carthage Coll., Carthage, Ill. *Bot. C.*

Gates, Prof. Wm. Hazen, Louisiana State Univ., Baton Rouge, La. *Zool., Genetics.*

Gauche, Mildred, M.Sc., Inst. Tulane Sch., 4802 St. Charles Ave., New Orleans, La. *Tropical Protozoology, Helmintology, Ent.*

Gaudette, Marie E., Act. Cur. Park Mus., Providence, R. I. *Bot. For Museum, Bot., Ent., Indian stone implements, shells, etc. C. Ex. and buy.*

Gault, B. T., Glen Ellyn, DuPage Co., Ill., Mam., Orn., Ool., Tax., Forestry, C.

Gavitt, Saxon B., Lyons, N. Y. *Birds, Fish, Mammals.*

Gay, Miss Clemie M., 2819 Idell St., Los Angeles, Calif. *Moll.*

Geddes, John M., 331 High St., Williamsport, Pa. *Lepid., Coleopt. C.*

Gerr, P. Willard, 93 Forest Hills St., Jamaica Plain, Mass.

Game Birds.

Gehring, John G., M.D., Sc.D., LL.D., Bethel, Me. (Winter address: Santa Barbara, Calif.) *Coleopt.* C. Ex. and buy.

Geiser, Samuel Wood, Washington Univ., St. Louis, Mo. *Invert. Zool., Bacteriology.* C. Ex. or buy. Mic. f. w. animals of No. Ia. (and some larger forms, particularly molluscs) offered in ex. for similar material from elsewhere.

Geldert, Dr. G. M., 282 Summer St., West Ottawa, Can.

Gentner, Louis G., Inst., in Ent., 213 Bailey St., East Lansing, Mich. *Halticinae.* C. Ex.

Genung, Elizabeth, Asst. Prof. of Bot., Smith Coll., 2 West St., Northampton, Mass.

George, Russell D., Dept. of Geol., Univ. of Colo., State Gibson, Edmund H., 1317 G St., Washington, D. C. *Hemipt. Geologist,* Boulder, Colo. *Geol., Econ. Geol., Min., Fossils, Rocks.*

Gerald, Herbert P., U. S. Patent Office, Washington, D. C. *Bot., Anth., Orn.*

Gerhard, Wm. J., Field Mus. Nat. Hist., Chicago, Ill., *Ent. (Hemiptera).* C. Ex.

Germain, Bro, Academie De La Salle, Trais-Rivirres, Quebec, Can. *Hymen., Lepid.*

Gerould, Prof. John H., Dartmouth Coll., Hanover, N. H. *Zool., Genetics. Evolution of color in butterflies, especially in Colias and other Pieridae.*

Gerrish, Willard P., Prof. Harvard Coll. Observ., Cambridge, Mass. *Ast., Physics. Engineering.*

Gester, G. C., First Nat. Bank Bldg., San Francisco, Calif. *Geol., Oil.*

Getchell, F. H., Court House, Vancouver, B. C., Can. *Ent.*

Gibbon, Hugh A., Box 111, Miniota, Man., Can. *Lepid.* C. Ex.

Gibson, Arthur, Dominion Ent., Dept. of Agric., Ottawa, Can. *Ent., esp. Econ. Ent., and preparatory stages of Lepid. especially Arctidiæ and Noctuidæ.*

Gibson, Dr. Arthur M., Md. Diocesan Lib., Johns Hopkins Univ., Baltimore, Md. *Lepid.* C. Ex.

Gibson, J. W., M.A., Education Dept., Victoria, B. C., Can. *Gen. Nature Study.*

Gibson, Thomas William, Deputy Minister of Mines, Toronto, Ont., Can. *Min.*

Giddings, Nathan James. Plant Pathol., Agric. Expr. Sta., Prof. Plant Pathol., W. Va. Univ., Morgantown, W. Va. C. of Plant Diseases.

Gidley, M. J., Ph.D., Ant. Am., U. S. Nat. Mus., Washing-

ton, D. C. *Palaeo.*
Gifford E. W., Mus. of Anthropology, San Francisco, Calif.
Anth.
Gifford, Dr. John, Cocoanut Grove, Fla. *Bot.*
Gifford, Walter M., P. O. Box 300, Honolulu, T. H. *Ent.*
esp. Homoptera.
Gifford, Mrs. D. S., 926 East 18th St., Oakland, Calif. *Land Shells.* C.
Gilbert, Alfred H., Coll. of Agric., Univ. of Vt., Burlington,
Vt. *Bot., Plant Pathol.*
Gilbert, Charles Henry, Ph.D., Prof. of Zool., Leland Stan-
ford Jr. Univ., P. O.; Stanford Univ., Calif., *Vert., esp. Ichth.*
Gilbert, E. C., 604 34th St., Oakland, Calif. *Nat. Hist.,*
Stamps, Coins, Palaeo., Geol., Min., Lithol. C. Ex.
Gillilan, Mrs. C. H., Box 47, Barnet, Vt. *Orn., Bot.*
Gilkey, Dr. Helen M., Agric. Coll., Corvallis, Ore. *Bot.,*
Fungi. (Tuberales).
Gill, Augustus H., S.B., Ph.D., Sc.D., Prof. of Technical
Analysis, Mass. Inst. Tech., Cambridge, Mass. *Org.,*
Inorg. and Ind. Chem., Phys., Elect.
Gillett, Henry W., Somers, Conn. *Arch., Bot.*
Gillette, Clarence P., D.Sc., State Agric. Coll., and Dir. of
Exp. Sta., and State Ent., Fort Collins, Colo. *Ent.*
Esp. desires *Aphididae*. Also wishes to ex. economic
species of all orders.
Gillette, Edw., Southwick, Mass. *Bot., Cultivation of Wild Flowers.*
Gilliam, R. A., Pres. Tex. Forestry Assoc., 901 Cedar Hill
Rd., Sta. A., Dallas, Texas. *Orn.* C.
Gilman, Winfield W., 206 S. Hamilton St., Madison, Wis.
Arch., Orni., Tax. C. Ex.
Gilmore, C. W., Cur. Vert. Palaeont., U. S. Nat. Mus.,
Washington, D. C. *Vert. Palaeo.*
Girault, A. A., Glendale, Md. *Ent.*
Girty, Geo. H., Ph.D., U. S. Geol. Surv., Washington, D. C.
Geol., Palaeo. C.
Gladwin, Harold S., Hon. Cur. Santa Barbara Mus. of Nat.
Hist., Mission Canyon, Santa Barbara, Calif. *Lepid.,*
Ool., Orn. C. Ex. and buy.
Glaser, Otto Charles, Prof. of Biol., Amherst Coll., Am-
herst, Mass. *Emb., Gen. Physiol.*
Glasgow, Robert D., Assoc. in Ent., Univ. of Ill., 404 Nat.
Hist. Bldg., Urbana, Ill. *Ent.*
Glazier, Guy O., R. F. D. 2, El Cajon, Calif. *Gen. Nat.*
Hist., Arch., Shells.
Gleason, Dr. Henry Allan, Dir. N. Y. Bot. Garden, Bronx
Park, New York City. *Phytogeography, Taxonomy.*

Glenk, Robert, B. S., Ph.D., Cur. Bot., La. State Museum, New Orleans, La. *Plants, Fossils, Indian Relics.* Buy, sell. Ex.

Glenn, L. C., Prof. Geol., 2111 Garland Ave., Nashville, Tenn. *Geol., Min., Palæo.*

Glick, P. A., Phoenix, Ariz. *Ent.: Lepid., Catocolæ.* C. Ex. buy or sell. Give lectures on moths and butterflies in connection with farm life.

Gloyd, Howard Kay, Asst. Cur. Mus., Dept. of Zool., Kansas State Agric. Coll., Manhattan, Kans. *Birds, Reptiles, Mam.*

Godbout, A. A., 5 Arago St., Rochs, Quebec, Can. *Orn., Ool. C.*

Goddard, Miss Mina K., 11 Bedford St., Lexington, Mass. *Ferns.*

Godefrey, Brother, C. S. C., 306 Dezery St., Montreal, Can. *Bot., Ent. Ex. in Bot.*

Godfrey, Charles C., M.D., 1962 Elm St., Stratford, Conn. *Ast., Bot.*

Godhue, Fred E., Wilmot, N. H. *Geol., Min., Cryst.* C. Goe, Milton T., Portland, Ore. *Ent., Coleopt.*

Goldfarb, Prof. A. J., College of the City of New York. *Experimental Emb. and Physiol., Zool.* C. Ex. Plants.

Golden, Dr. I. J. K., North Ave., Chicago, Ill. *Mic.*

Goldman, E. A., Biol. Survey, Dept. of Agric., Washington, D. C. *Geog., Ent.*

Goldring, Winfield, Slingerlands, N. Y. *Palæo., Palæobotany.*

Goldsmith, Gertrude B., Inst. in Biol., 12 Lincoln St., Manchester, Mass. *Orn., Bot., Ent.*

Goldsmith, G. W., 123 E. Washington St., Colorado Springs, Colo. *Bot., Ent., Ecol.* (Particularly of soil).

Goldthwaite, J. W., Prof. of Geol., Dartmouth Coll., Hanover, N. H.

Golish, W. H., Southwest Mus., Marmion Way and Ave. 46, Los Angeles, Calif. *Con. Ex. buy and sell.*

Good, Henry George, Asst. in Ent., Dept. of Ent., Cornell Univ., Ithaca, N. Y. *Coleopt.*

Goodale, Prof. Alfred S., Amherst College, Amherst, Mass. *Bot. Ex.*

Goodale, H. D., Williamstown, Mass. *Exper. Zool., Genetics.*

Gooderham, C. B., Dom. Apiarist, Central Expr. Farm, Ottawa, Ont., Can. *Ent.*

Goodhue, Chas. F., Penacook, N. H. *Orn., Lepid.* Want *Catocala* and *Haploa*, also *Geometridæ* of the U. S..

and Indian Arrow Points from So. Atlantic States.
C. Ex.

Goodrich, Mrs. L. Lenora, 479 James St., Syracuse, N. Y.
Pres. Syracuse Botanical Club. *Bot. C. of ferns of
No. Am.*

Goodrich, Wilbur F., C.E., Consulting Engineer, 10 Gibbens
St., Somerville, Mass. *Con., Min., Gems.* C. Ex. De-
sires Helices, F. W. Shells, Gems and Crystals.

Goodwin, Mrs. Abbie G., Gen. Del., Mason City, Iowa. *Birds,
Insects, Coll., Butterflies.*

Gordon, Clarence E., Ph.D., Curator of the Zool and Geol.
Museum, Prof. of Zool. and Geol., Mass. Agric. College,
Amherst, Mass.

Gordon, Samuel G., Sec. Phil. Min. Soc., Assoc. Ed. The Am.
Mineralogist, Acad. of Nat. Sci., Philadelphia, Pa.
Crystallography.

Gorham, Frederick P., 151 Meeting St., Providence, R. I.
Bact., Ent., Palao. C.

Goshorn, Arthur, Winerset, Iowa. *Geol., Zool.*

Gossard, H. A., Chief Entomologist, Ohio Agric. Exp. Sta.,
Wooster, Ohio. *Ent.*

Gough, Miss Lulu C., Tarleton Station, Stephenville, Tex.
*Bot., Zool., Relation of plants and animals to their
environment.* C. Ex. especially grasses.

Gow, Alex., Windsor, Ont., Can. *Orn., Tax.* C.

Graf, Geo., Lib. Heink Nat. Sci. Club, 1437 Shawmut Pl.,
St. Louis, Mo. *Ent.*

Graf, J. L., 724 Adelaide St., Pittsburgh, Pa. *Lepid. and
Odonata.* C. Ex.

Graff, Paul Weidemeyer, Asst. Prof. Bot., Univ. of Mont.,
and Botanist, Univ. of Mont. Biol. Sta., 406 Univ. Apts.
Missoula, Mont. *Crypt. Bot.*

Graham, Edw. H., R. F. D. 1, Sewickley, Pa. *Camp Nature
Study work.*

Graham, Mae Clifton, Inst. of Zool., Zool. Dept., Univ. of
Pittsburgh, Pittsburgh, Pa. *Genetics.*

Graham, Prof. Margaret A. Hunter Coll., N. Y. *Zool.*

Graham, Dr. Robert, Expr. Sta., Urbana, Ill. *Biol.*

Graham, Samuel Alex., Univ. Farm, St. Paul, Minn. *Forest
Ent., Insect Ecol., Silviculture, Tax. of Ipidæ, Ceram-
bicidae and Euprestida.*

Granger, ..alter, Am. Mus. Nat. Hist., New York City.
Palao.

Granovsky, A. A., Univ. of Wis., Madison, Wis. *Econ. Ent.*

Grant, E. O., Patten, Me. *Orn., Ent.*

Grant, R. Q., U. S. Weather Bureau, Phoenix, Ariz. *Meteo.*

Grant, Ulysses Sherman, Ph.D., Prof. Geol., Cur. Mus.,
Northwestern Univ., Evanston, Ill. *Geol., Petrog.* C.

Grassman, Hermann, Liverpool, N. Y. *Lepid., Coleopt.* C.
Gravelle, Philip O., 114 Prospect St., So. Orange, N. J.
Photomicrography.
Graves, Arthur Harmont, B.A., Botanic Garden, Brooklyn,
N. Y. *Fungi and Forest Pathol.* C. of Fungi.
Graves, C. B., 4 Mercer St., New London, Conn. *Bot., Orn.*
C.
Graves, E. W., Bentonsport, Iowa. *Bot.*
Graves, John D., 1057—62nd St., Oakland, Calif. *Ent.*
Gray, Miss Alice M., 282 East 2nd St., Beaver, Pa. *Bot., Orn.*
C. Ex.
Gray, Arthur F., C.E., 53 State St., Boston, Mass. *Land
Shells (Mollusca in general)* C. Buy. Desires exotic
land shells. West Indies, Mexico, Central and So. Am.,
Asia, Africa and Polynesia.
Gray, George M., Cur. Supply Dept., Marine Biol. Lab.,
Woods Hole, Mass. *All branches of Nat. Hist.* C. buy
and sell.
Greely, Gen. A. W., U. S. Army, Cosmos Club, Washington,
D. C. *Meteo., Geog. Dist.* Ex. polar and sub-polar
literature on all subjects.
Green, Bessie, Ill. State Univ., Urbana, Ill. *Bryozoa.*
Green, Miss Eleanor B., 1436 McCadden Pl., Hollywood,
Calif. *Lepid.* C.
Green, Edgar M., A.M., M.D., 222 Spring Garden St., Easton,
Pa. *Bot., Mic., Gen. Biol., Histol.*
Green, Frank T., Ph.G., Prof. Chem., Calif. Coll. Pharm.,
1176 Fell St., San Francisco, Calif. *Bot., Geol., Min.,
Chem., Metall., Mic.* C. Ex.
Green, Frederick V., 111 Chambers St., New York City.
Ent., Mic.
Green, George Rex, Prof. of Wood Technol. In charge Div.
of Nature Study, 250 S. Burrowes St., State College,
Pa. *All phases of Nature Study and Forestry.* C. Ex.
Green, Horace O., 221 North Ave., Wakefield, Mass. *N. E.
Birds and eggs.* C. Ex.
Green, John Wagener, 520 McCartney St., Easton, Pa.
Coleopt. C. Ex.
Green, N. Y., 131 Chestnut St., Battle Creek, Mich. *Orn.,
Bot.* C.
Green, Rufus L., Prof. Math., Stanford Univ., Calif. *Phys.,
Meteo., Ast., Ichth.*
Greene, R. P., Frankfort, Ky. *Geol.*
Greene, Charles T., U. S. Nat. Mus., Washington, D. C.
Box 51, East Falls Church, Va. *Forest Dintera.*
Greene, Major Chas W., (Ph.D. Johns Hopkins) Prof.
Physiology, Univ. of Missouri, Columbia, Mo. *Physiol.
of Vertebrates.* C.

Greene, George M., 2534 W. Columbia Ave., Philadelphia, Pa. *Coleopt.*, *Diph.* C. Ex.

Green, John Wagener, 520 McCartney St., Easton, Pa. *Coleopt.* C. Ex.

Greenman, Prof. Jesse More, Mo. Botanical Garden, St. Louis, Mo. *Phan. Bot.*

Greenman, Dr. Milton J., Dir. of the Wistar Inst. of Anatomy, 3618 Woodland Ave., Philadelphia, Pa.

Greenwood, Miss Helen E., B.A., M.A., 12 Hudson St., Worcester, Mass. *Crypt. Bot.* C. Ex.

Gregg, Dr. Wendell O., Montrose, Calif. *Con.*, *Palaeo.* C. Ex.

Gregory, Herbert E., Prof. Geol., Yale Univ., New Haven, Conn. *Physiography.*

Gregory, Dr. Wm. K., Am. Mus. Nat. Hist., New York City. *Zool.*

Gress, Dr. E. M., Bureau Plant Industry, Harrisburg, Pa. *Syst. Bot.*

Greywacz, Kathryn B., State Museum, State House, Trenton, N. J. *Nat. Hist.*, *Geol.* Large Mus. Coll. Ex.

Griffée, Willet E., Technical Forestry, Corvallis, Ore. *Ool.*

Griffin, Bertram S., L. B. 17, West Newbury, Mass. *Orn.*, *Ool.* C. Ex. and buy.

Grigg, Frederick W., 64 Otis St., Newtonville, Mass. *Bot.*

Griffin, Lawrence E., Prof. Zool., Univ. of Pittsburgh, Pittsburgh, Pa. *Herpetol.* C. Ex.

Griggs, Leland, Dartmouth Coll., Hanover, N. H. *Biol.*

Griggs, Prof. Robert F., George Washington Univ., Washington, D. C. *Plant Geog.* C.

Grimes, Samuel, 27 Mistruxt Ave., Mystic, Conn. *Moths*, *Butterflies.*

Grindley, H. S., Univ. of Ill., Urbana, Ill.

Grinnell, Fordyce, Jr., 690 E. Orange Grove Ave., Pasadena, Calif. *Ent. esp. Lepid.* C. ?

Grinnell, George Bird, Ph.D., 238 East 15th St., New York, N. Y. *Anth.*

Grinnell, Joseph, Univ. of Calif., Mus. of Vert. Zool., Berkeley, Calif. *Orn.*, *Mam.*

Grinstead, Dr. Wren, Richmond, Ky. *Psychol.*, *Biol.*, *Geol.*

Griscom, Ludlow, Asst. Cur. Orn., Am. Mus. Nat. Hist., New York City. *Geog. Dist.* Will ex. for or purchase any material of the higher plants of No. Eastern Am.

Griswold, C. F., Bureau of Plant Industry, Washington, D. C. *Plant Physiol.*

Griswold, Grace H., Inst. in Ent., Dept. of Ent., Cornell Univ., Ithaca, N. Y. *Ent.*

Griswold, L. S., Mo. School of Mines, Rolla, Mo. *Geol.*

Groh, Herbert, Central Expr. Farm, Ottawa, Ont., Canada.

Bot., Gen. Nat. Hist.
Gromme, Owen J., Asst. Taxidermist, Public Museum, Milwaukee, Wis. *Bird Tax., Banding.*
Groneman, Carl F., 310 N. Liberty, Elgin, Ill. *Galls and gall Insects.* Ex.
Gross, Alfred O., Prof. Zool., Bowdoin College, Brunswick, Me. *Zool., Orn. Col. Birds.* Ex. or sell.
Grossenbacher, J. G., Plant Path., Apopka, Fla. *Hort., Mic.*
Groth, C. F., 14 Poplar Pl., New Rochelle, N. Y. *Papilio*
Grout, Abel Joel, Ph.D., New Dorp, Richmond Co., N. Y. or
Curtis High School, New Brighton, N. Y. *Bot., Nature Study.* C. Ex. of Mosses. Want perfect fruiting species
in quantity. Publish several books on N. Am. Mosses.
Grove, Miss Jennie, Glasgow, Howard Co., Mo. *Ent.*
Grover, Frederick Orville, Prof. Bot., Oberlin Coll., Oberlin, Ohio. *Tax., Ecol.* C. Ex. Phænerogams and Cryptogams.
Grube, Sara Jane, Raubsville, Pa. Inst. Biol., The Temple Univ., Philadelphia, Pa.
Gruber, C. L., A.M., Prof. State Normal Sch., Kutztown, Pa. *Phan. Bot., Ferns, Trees and Shrubs, Woods.* Coll. of woods for sale.
Gudger, Dr. E. W., Prof. Biol., State Normal Sch., Greensboro, N. C. *Habits, life histories and morph. of fishes.*
Gueret, Edmond N., Field Mus. Nat. Hist., Chicago, Ill. *Osteol.*
Guernsey, Samuel James, Asst. Dir., Peabody Museum, Cambridge, Mass. *Arch.*
Guild, Frank Nelson, Ph.D., Prof. of Min. and Head Dept. of Geol. and Min., Univ. of Arizona, Tucson, Ariz.
Guimont, Abbe, C. R., J.C.D., Prof. Univ. Laval, Quebec, Can. - *Min., Geol., Bot.*
Gulberlet, John E., Ph.D., Asst. Prof Zool., Univ. of Washington, Seattle, Wash. *Zool. esp. Parasitology.*
Gunder, Jeane D., 849 Linda Vista Ave., Pasadena, Calif. West Coast Lepidoptera.
Abernations in butterflies wanted. Best prices paid.
Write me what you have. Also butterflies of the West Coast from Eastern collections.
Gunns, C. A., Zool. Dept., State Agric. Coll., Manhattan, Kans. *Mic.* C. Ex.
Gunthorp, Dr. Horace, Asst. Prof. of Zool., Zool. Dept., Univ. of Washington, Seattle, Wash. *Myriopoda.* C. Ex.
Gurley, Wm. F. E., Cur. in Palæontology, Walker Museum, Univ. of Chicago, 6151 University Ave., Chicago, Ill. *Palæo.*
Gurzel, Chas., 3651 Third Ave., New York City. *Ent.*

Gussow, H. T., Dominion Botanist, Central Exp. Farm, Ottawa, Can. *Plant Pathol., Gen. Econ. Bot.*

Guttersen, Myson Edwards, Andover, Mass. *Bot.*

Guyton, F. E., Asst. Prof. Ent., Auburn, Ala. *Leaf hoppers, Roaches. C. Ex.*

Haas, Wm. H., Ph.D., Assoc. Prof. Geog. and Geol., Northwestern Univ., Evanston, Ill.

Haberer, Joseph V., M.D., Utica, N. Y. *Bot., Ethnol., Anat., Osteol. C. Ex.*

Hadden, David E., Alta, Iowa. *Ast., Meteo., Chem.*

Hadley, C. H., Dir. Bureau of Plant Industry, Penn. Dept. of Agric., Bureau of Plant Industry, Harrisburg, Pa. *Econ. Ent., Insects injurious to agric.*

Hadley, E. E., 123 So. 1st St., Alameda, Calif. *Geol., Palao. C. Ex. fossils and invertebrates.*

Hadley, Miss Theodosia, Prof. of Nature Study, Western Normal College, Kalamazoo, Mich.

Hadwen, Dr. S., Experimenting Farm, Agassiz, B. C., Can. *Ent.*

Haegelmier, Joseph J., 1916 Provenchere Pl., St. Louis, Mo. *Gold and Tropical Fishes, water plants and snails. C. Ex.* Interested in buying and importing.

Hagan, Harold R., Assoc. Prof. Zool., Univ. of Utah, Salt Lake City, Utah. *Econ. Ent. C. Ex. buy. Will ex. Utah insects undertermined for Bombyliidae, whether determined or not, or other determined diptera.*

Hagar, Joseph A., Marshfield Hills, Mass. *Orn.*

Hagelstein, Robert, Pres. N. Y. Mic. Soc., Mineola, N. Y. *Mic., Diatomaceæ. C. Ex. or buy. Will buy or ex. microscopical journals and literature or diatoms, also slides of Diatoms.*

Hagen, Oscar, Entomologist, 1448 Lincoln St., Salt Lake City, Utah. *Ent.*

Hageman, Aaron M., Asst. in Chemistry, Rutgers College, New Brunswick, N. J. *Min. C. Ex. Min.*

Hahn, Clarence Wilson, B.S., M.S., P.G., 155 West 65th St., New York City. *Sporozoa (Myxosporida).*

Hahn, Glen Gardner, Forest Pathol., Bureau Plant Industry, Washington, D. C. *Pathol., Mycol.*

Haimbach, Frank, Lepidopterist, 8406 Ridge Ave., Roxborough, Philadelphia, Pa. *Ent., Lepid. C. ?*

Haines, Arthur L., General Chemistry, Univ. of So. Dakota, Vermillion, S. D. *Archaeological specimens. Fossils, Land and Fresh Water Shells. Ex. fossils and shells.*

Haines, Robt. L., 54 E. Main St., Moorestown, N. J. *Orn., Gen. Ent., Coleopt.*

Haines, Capt. R. W., 1908 Third St., Baker, Ore. *Orn.,*

Min.

Halbert, Miss Lilian, Senior High School, Fort Worth, Texas. *Nature Study, Biol.*

Hale, Dr. George E., Hon. Dir. of Mt. Wilson Observatory, Pasadena, Calif. *Ast., Phys.*

Halkett, Andrew, 216 Lynn St., Assoc. Zool., Dept. of Marine and Fisheries, Ottawa, Can. *Gen. Nat. Hist. C. Ex.*

Hall, Ada R., Ph.D., Prof. of Biol., Shorter College, Rome, Ga.

Hall, Edwin H., 39 Garden St., Cambridge, Mass. *Phys.*

Hall, F. G., Prof. of Biol., Milton, Wisc. *Fish, Birds, Mammals.*

Hall, F. S., Dir. Wash. State Mus., University Campus, Seattle, Wash. *Birds, Mammals.*

Hall, Gaylord C., 612 Broadway, New York, N. Y. *Butterflies. C.*

Hall, H. M., Investigator in Ecol., Carnegie Inst., Univ. Calif., Berkeley, Calif. *Phan. Bot. C.*

Hall, Maurice C., Zool. Div., Bureau of Animal Industry, Washington, D. C. *Parasitology, Med. and Vet. Zool.*

Hallett, Andrew, Dominion Naturalist, Marine Dept., Ottawa, Ont. *Ent., Ichth.*

Hallinan, Thos., 212 Madison Ave., Paterson, N. J. *Ent.*

Hallinen, J. E., Cooperton, Kiowa Co., Okla. *Birds, Insects, esp., and biological matters generally. C. Ex.*

Ham, Dr. J. B., 1876 Humboldt St., Denver, Colo. *Orn.*

Hamaker, John Irvin, Prof. Biol., Randolph-Macon Woman's Coll., 12 Princeton St., Lynchburg, Va.

Hamberger, A. W., M.S., Ph.D., Prof. Chem., Univ. of Louisville, Louisville, Ky. *Rare shrubbery and ferns.*

Hanbleton, James T., Bureau of Ent., Washington, D. C. *Apidæ—The Honey Bee.*

Hamilton, C. B., Box 76, Norway, Me. *Catocala relicta and clara ex. larvæ for S. A. Butterflies.*

Hamilton, C. C., Assoc. Ent., Univ. of Md., College Park, Md. *Insect Morphol.*

Hamilton, Hon. James Albert, A.M., Ph.D., LL.D., 2090 Washington Ave., Bronx, New York City. *Mic., Conservation, wild life protection.*

Hamilton, Wm. T., Jr., 110 Edgemont Lane, Ithaca, N. Y. *Mam. C. Ex.*

Hamlin, Chauncey J., Pres. Buffalo Soc. of Nat. Hist., Buffalo, N. Y.

Hamlin, Howard E., Asst. Prof. Physiol., Simmons Coll., 300 The Fenway, Boston, Mass. *Sources of winter supply of live frogs that are near Boston.*

Hamlin, John A., 215 West 11th Ave., Columbus, Ohio.

Hemipt.

Hammond, G. H., Insect Pest Investigation, Macdonald College, Que., Can. *Noctuidæ: Agrotinæ, Cucullinae.* C. Ex.

Hamor, W. A., M.A., Research Chemist, College of the City of New York, N. Y. *Min.* C. of rare minerals.

Hampson, John, 71 Cutler St., Newark, N. J. *Lepid.* C. Hanawalt, Fred Arthur, Asst. Prof. in Biol., '74 W. Main St., Westerville, Ohio. *Gen. Zool.*

Hance, Robert T., M.A., Ph.D., Zool. Bldg., Univ. of Pa., Philadelphia, Pa. *Cytol., Genetics, Emb., Histol.*

Hand, Edwin E., 904 East 56th St., Chicago, Ill. *Land shells.* C. Ex.

Hankinson, T. L., Prof. of Zool., State Normal Sch., 96 Oakwood Ave., Ypsilanti, Mich. *Gen. Zool., Ecol., Orn., Ichth.* C. Ex.

Hanham, A. W., Duncan, B. C. R. M.D. *Ent.: Lepid.* San Francisco, Calif. *Palæo., Geol.*

Hannon, John H., Extension Specialist in Entomology, Dept. of Ent., E. Lansing, Mich.

Hansen, Albert A., Assoc. Botanist, Purdue Univ., Agric. Exp. Sta., Lafayette, Ind. *Weeds, poisonous plants, Econ. Bot. in general.*

Hansen, James, Prof. Biol., St. John's Univ., Collegeville, Minn. *Vermes. and Arthropods.* C. Ex. or sell.

Hapeman, H., M.D., Minden, Kaerney Co., Neb. *Phan.* C. Ex.

Happing, Ralph, U. S. Dept. of Agric., San Francisco, Calif. *Coleopt.* C. Ex.

Harden, Edw. B., M.E., 1410 M St. N. W., Washington, D. C. *Struct. Geol., Relief maps, Inorg. Chem.* ?

Hardenburg, C. D., R. 3, Box 41, Grand Rapids, Mich. *Ent.* ?

Hardesty, Irving, Prof. Anat. and Head of Dept., Tulane Univ., P. O. Sta. 20, New Orleans, La. *Anat.*

Harding, H. A., Chief Dairy Research Div., Frederick C. Mathews Co., 685 Mullett St., Detroit, Mich. *Bacteria, particularly city milk supplies.* Ex. reprints in dairy.

Hardman, John E., S.B., M.E., 660 Sherbrooke St., West Montreal, Can. *Phys. Geol., Min., Lithol., Metall.* C.

Hardy, H. T., M. D., Kaneville, Ill. *Orn.*

Hardy, Isaac B., 327 E. Victoria St., Santa Barbara, Calif. *Molluscs.* C. Ex.

Hardy, Walter M., 159 Wilson St., Brewer, Me. *Mammals.*

Hare, Sid. J., Landscape Archt., 712 Huntzinger Bldg., Kansas City, Mo. *Geog. distribution of ornamental plants. Bot.* Desires local list of plants used in landscape work.

Haren, Wm. A., 4575 Forest Park Blvd., St. Louis, Mo.
Mic., *Ent.*, *Palæo.* C. fossil amber and insects.

Hares, Charles J., B.S., M.S., Palæontologist, U. S. *Geol. Survey*, 2901—16th St., Washington, D. C. *Geol.*

Harger, Edgar Burton, Oxford, R. D. 2, Seymour, Conn.
Bot. Has large number of duplicates of flowering plants and ferns. Desires especially American plants in ex.

Hargitt, Chas. W., Ph.D., Prof. Zool., Syracuse Univ., Syracuse, N. Y. *Gen. Biol.*, *Morph.*, *Emb.*, *Animal behavior*.

Hargitt, Geo T., Ph.D., (Harvard) Prof. of Zool., Syracuse Univ., Dept. of Geol., Lyman Hall, Syracuse, N. Y. *Vert.*, *Emb.*, *Proto-Zool.*

Harkness, Asst. Zoologist, Univ. of Alberta, Edmonton, Alta., Can. *Fish.*

Harned, R. W., Prof. of Zool and Ent., and Entomologist, Miss. Agric. Expt. Station, Agricultural Coll., Miss. *Ent. Cicadas. C. of Insects.* Will be glad to send material to specialists for determination.

Harnly, Henry, Jr., Ph.D., McPherson, Kans. *Physiol. and Bionomics. Geol.* C. Limited amount of Kansas material for ex.

Harper, Arthur R., c/o The Ohio State Life Ins. Co., Columbus, Ohio. *Bot.*, *Orn.*

Harper, Francis, Zool. Lab., Cornell Univ., Ithaca, N. Y.

Harper, Roland M., Ph.D., Fla. Geol. Survey, Tallahassee, Fla. C.

Harrah, Ezra Clarence, Ph.D., Assoc. Prof. of Zool., Univ. of Wyoming, Wyo. *Parasitology.* C. Ex.

Harring, H. R., Nat. Museum, Washington, D. C. *Rotifera. Mic.*

Harrington, W. H., P. O. Dept., 295 Gilmour St., Ottawa, Ont., Can. *Ent.* ?

Harris, Albert, Kindred, N. Dak. *Birds, mam., Palæo.* C. Ex.

Harris, Charles L., Macomb, Ill. *Nat. Hist., Arch.*

Harris, Geo. W., Baldwinsville, N. Y. *Bot., Orn.*

Harris, Gilbert D., Prof. Palæo. and Strat. Geol., Cornell Univ., Ithaca, N. Y. *Tertiary Geol. and Palæo.* ?

Harris, Harry, 18 West 52nd St., Kansas City, Mo. *Orn., Ool.* C. Ex. eggs. Will buy rare orn. books, journals and papers.

Harris, Harry W., Box 33, Rogers, Mich. *Ent.*

Harris, J. Arthur, Dept. of Bot., Univ. of Minn., Minneapolis, Minn. *Ecol.*

Harris, Jennie, Box 13, Nacogdoches, Texas. *Lepid.* ?

Harris, Robert W., New Albany, Ind. *Bot., Orn., Mic.*

Harrison, Arthur K., Asst. Prof., Landscape Gardening, 8

Allen St., Amherst, Mass. *Bot.*

Harrison, F. C., D.Sc., F.R.S.C., Principal, MacDonald College, P. Q., Can. *Bacteriology.*

Harrison, Ross G., Prof. of Comparative Anatomy, Yale Univ., New Haven, Conn. *Embryology.*

Harrold, C. G., Taxidermist, 177 Smith St., Winnipeg, Man., Can. *Orn., particularly scientific field work and collecting.* C. ex. and buy.

Harrold, Elmer, Leetonia, Ohio. *Wild-flower Photography, Botany, Birds, Ast.*

Harshberger, John W., Ph.D., Prof. of Bot., Univ. of Pa., 4839 Walton Ave., Philadelphia, Pa. *Ecol., Fungi, Geog. Dist.* C.

Hart, Cecil, Route 1, Box 432, Montebello, Calif. *Herpet. Ent., Con., Bot., Orn.* C. Ex.

Hart, H. Inez, 5958 Vermont Ave., Detroit, Mich. *Nature Study, Geog.*

Hart, Maxwell C. B., 255 West 112th St., New York, N. Y. *Old and Historical Books, Letters, Documents, etc.*

Hart, Reginald, State Plant Board, Gainesville, Fla. *Ent.*

Hartley, Carl, U. S. Bur. Plant Industry, Washington, D. C. *Plant Pathol.*

Hartline, D. S., A.M., Biologist, Bloomsburg, Pa. *All phases of Biol.*

Hartnagel, Chris. A., Education Bldg., Albany, N. Y. *Geol.*

Hartshorn, Carl L., B.S., in Ch.E., 386 Union Ave., West Haven, Conn. *Mic., Chem., Photomicrography.* C. micro-objects and photographs. Ex. micro-objects, and photomicrographs.

Hartwell, B. L., Ph.D., Dir. Agron., Agric. Exper. Sta. and Prof. Agric. Chem. R. I. State Coll., Kingston, R. I. *Agric., Chem., Plant Nutrition.*

Harvey, Mrs. John L., 96 Greenwood Lane, Waltham, Mass. *Orn.*

Harvey, LeRoy Harris, Ph.D., Prof. of Biol., Western State Normal School, Kalamazoo, Mich. *Plant Ecol.*

Harvie, Dr. Robert, Geologist, Geol. Survey, Ottawa, Canada.

Haseman, Leonard, Whitten Hall, Columbia, Mo. *Dipt., (Psychodidae).* C. Ex. or buy.

Hastings, Edwin G., 2111 Van Hise Ave., Madison, Wis. *Bacteriol., Chem.*

Hastings, George T., 7 Robbins Place, Yonkers, N. Y. *Bot.*

Hatch, Melville H., Asst. in Zool., Dept. of Zool., Univ. of Mich., Ann Arbor, Mich. *Coleopt. of world, esp. Silphidae, Lampyridæ, Phalachridæ.* Will determine Silphidae, Histeridae. C. Ex.

Hathaway, Edw. S., Inst. in Zool., Univ. of Wis., Biology

Bldg., Madison, Wis. *Ecol. and Behavior, esp. of rodents.*

Hathaway, H. S., South Auburn, R. I. *Orn., Ool.* C. Bird books and publications wanted.

Hatt, Robert T., Inst. in Biol., N. Y. Univ., University Heights, N. Y. *Life histories of mammals.*

Hatton, Horace, 140 Fermor Ave., St. Vitæ, Man., Can. *Gen. Nat. Hist.* C. Ex.

Hauber, Rev. Ulrich A., Prof. of Biol., St. Ambrose College Davenport, Iowa. *Coleopt., Plants, also Museum material generally.*

Hauer, Fred., 902 Elm Ave., Lancaster, Pa. *Prehistoric Indian Relics.* C. Ex. sell and buy.

Haughton, Dr. A. D., Dept. of Bot., Univ. of Calif., Berkeley, Calif.

Haven, Herbert M. W., 500 Forest Ave., Portland, Me. *Min., Bot., Mam., Gen. Nat. Sci.* C. Ex. min.

Hawk, J. Lawrence, 5843 Plymouth Ave., St. Louis, Mo. * *Birds, Trees, Flowers, everything in nature.*

Hawley, Ira M., Head Dept. Zool. and Ent., Ent. of Expr. Sta., Acting Dean, Basic Arts and Science, Utah Agric. Coll., Logan, Utah. *Econ. Ent., Insects of sugar beets and fruits.* C. Ex. undetermined of many families. Would like to buy exotic insects for exhibit collection.

Hay, Oliver Perry, A.M., Ph.D., Associate Carnegie Inst. of Washington. House, 1211 Harvard St. Business address, U. S. Nat. Museum, Washington, D. C. *Vertebrates of the Pleistocene of N. A.*

Hayden, Margaret A., Teacher of Zool., Wellesley Coll., Wellesley, Mass.

Hayes, Wm. P., Prof. Ent., Kans. Agric. Coll., Manhattan, Kans. *Rhyncophora, Lachnosterna.*

Haynes, Caroline Coventry, Highlands, N. J. and 16 East 36th St., New York City. *Crypt. Bot.* C. of Hepaticæ.

Hays, Wm. P., State Agric. Coll., Manhattan, Kans. *Staple crop insect control.* ?

Hayt, H. W., Med. Elect., Lowville, N. Y. *Mam., Orn.* C. Ex.

Hazen, Edwin, H., Univ. Inst., Box 1874, Yale Station, New Haven, Conn. *Ferns.* C. Ex.

Hazen, Tracy E., Asst. Prof. of Bot., Barnard Coll., Columbia Univ., New York, N. Y. *Morph. and Taxonomy of Algae.*

Heacock, Miss Esther, Sec. Bird Club, Wyncote, Pa. *Birds, Bees.*

Headden, William P., A.M., State Agric. Coll., Fort Collins, Colo. *Min.*

Headlee, Thos. J., New Brunswick, N. J. *Econ. Ent. in*

Gen., Gen. Col. Ex. economics sp. of all sorts. Esp. interested in problems of the physiological side.

Healy, Daniel J., Expr. Station, Lexington, Ky. *Bacteriology.*

Healy, John L., 503 City Hall, Chicago, Ill. *Lepid. except micros.* C. Ex. or buy.

Hearle, Eric., Ast. Ent., Ent. Lab., Banff, Alta., Can. *Mosquitos and their control.* C. Ex.

Heath, Albert G., Ph.D., Handicraft of N. A. Indian, 444 E. 42nd St., Chicago, Ill. (June to Nov. 1st—Harbor Springs, Mich). *Everything in Indian Goods, Beads, Feathers.* Dealer.

Heath, Eugene S., A.M., 78 West North Ave., Atlanta, Ga. *Bot. of Southwestern States, Palæo., Zool.*

Heath, Dr. Harold, Dept. of Zool., Leland Stanford Univ., Calif.

Hebard, Morgan, Chestnut Hill, Philadelphia, Pa. Orthop. C. Ex. buy and sell. Dermoptera and Orthoptera. I will always be willing to take large series in these orders from collectors on trips to the tropics.

Heddle, John R., B.A., 16 So. Browne St., Madison, Wis. *Syst. Bot.*

Hegner, Robert W., Ph.D., Asst. Prof. of Zool., Univ. of Mich., Ann Harbor, Mich. *Chrysomelidae.*

Heimberger, Harry V., 129 Ann St., Whitewater, Wisc. *Oligochaeta, Families Lumbricidae, Megascolecidae.*

Heimlich, Prof. L. S., Lafayette, Ind. *Bot., Orn.*

Heink, Chas. L., 4320 N. 11th St., St. Louis, Mo. *Lepid.* C. Ex.

Heinrich, Carl, U. S. Nat. Mus., Washington, D. C. *Lepid.*

Heller, Edmund, Field Mus. of Nat. Hist., Chicago, Ill. (At present in Africa for Field Museum).

Hellmyr, Charles Edward, Assoc. Cur., Field Mus. of Nat. Hist., 5135 Blackstone Ave., Chicago, Ill. *Orn., particularly of So. Am.*

Helme, Arthur H., Miller Place, N. Y. *Orn., Mam., Hawks of the world.* C. Ex. or buy.

Hemmenway, Ansel F., Transylvania Univ., Lexington, Ky. *Biol.*

Henderson, Junius, Prof. Nat. Hist. and Cur. Mus., Univ. of Colo., Boulder, Colo. *Molluscs and Invert. fossils.* Mus. has large coll. C. Ex. or buy. Can furnish also Rock Mt. fishes, reptiles, etc.

Henderson, Prof. Lawrence J., 4 Willard St., Cambridge, Mass. Environment.

Henderson, Walter C., Asst. Chief, Biol. Surv., Dept. of Agric., Washington, D. C. *Econ. Mam. and Orn. Conserv. of wild life.*

Henke, Louis A., Prof. of Agric., Univ. of Hawaii, Honolulu, T. H.

Henn, Arthur W., Cur. of Ichthy., Carnegie Mus., Pittsburgh, Pa. *Fishes.*

Henry, A. E., Univ. Farm, St. Paul, Minn. *Plant Pathol., Mycol., etc.*

Henry, Stewart, Asst. Cur. Dept. of Bot., Cornell Univ., Ithaca, N. Y. *Tax. of vasc. and crypt. plants.*

Henshaw, Henry W., The Ontario, Washington, D. C.

Henshaw, Samuel, Dir. Mus. Comp. Zool., Cambridge, Mass. *Zool.*

Herbert, Frank B., Los Gatos, Calif., Asst. Ent., Balfour, Guthrie & Co. *Control of horticultural insects.*

Hering, Carl, D.Sc., Elec. Engr., 1317 Spruce St., Philadelphia, Pa. *Phys., Elec., Mycol.*

Hering, Daniel W., C.E., Ph.D., LL.D., Emer. Prof. Physics, N. Y. Univ., University Heights, New York, N. Y.

Herman, Dr. Wm. C., 19 W. 7th St., Cincinnati, Ohio. *Orn., Buy books on birds.*

Herman, Warren W., P. O. Box 1848, Boston, Mass. *Con., Palao. C. Ex. Old Firearms.*

Hermann, Dr. C. H., Amana, Iowa. *Arch.*

Hermann, Henry W., M.D., 3654 Delmar Blvd., St. Louis, Mo. *Mic., Histol.*

Herms, William Brodbeck, Prof. of Parasitology, Univ. of Calif., 1424 LeRoy Ave., Berkeley, Calif. *Medical Ent., Animal Parasites of Man and Beast, Ecol.*

Herrick, Glen W., Prof. of Econ. Ent., N. Y. State College of Agric., at Cornell Univ., 219 Kelvin Pl., Ithaca, N. Y.

Herrick, Harold, Lawrence, L. I., N. Y. *Orn.*

Herrington, W. E., 417 St. Louis Ave., East St. Louis, Ill. *Arch. C. Buy.*

Herrmann, Richard, Mus. of Nat. Hist., 2419 Central Ave., Dubuque, Iowa. *Geol., Arch., Palao., Ethnol., N. A. Indians.*

Hersam, Ernest A., Prof. of Metall., Univ. of Calif., Berkeley, Calif. *Mining, Metall., Chem.*

Hersey, F. Seymour, Taunton, Mass. *Orn. C. Ex. and buy.*

Hervey, Rev. A. B., Ph.D., Bath, Me. *Mic., Crypt. Bot., Marine Alga in particular.* Warwick East., Bermuda.

Herz, A., 1951 Belmont Ave., Chicago, Ill. *Lepid.*

Hess, Frank L., 1221 Newton St., Brookland, D. C. Geologist, U. S. Geol. Survey. *Minerals of the rare metals.*

Hetherington, Duncan C., A.B., M.A., Ph.D., Johns Hopkins Med. Sch., Baltimore, Md. *Bot.: Parasitology.*

Heusinger, Edward, F.R.G.S., Dir. Scientific Society of San Antonio, Texas.

Hewson, Addinell, A.M., M.D., Sec. Penn State Anatomical

Board, Prof. Anat., Grad. Sch. Med., Prof. Anat. and
Histol., Temple Univ., 326 So. 15th St., Philadelphia,
Pa. *Vert. Anat., Mammals, Osteol., Myol., Histol.* C.
Ex.

Hewlett, Esther P., The Butterfly Art Store, P. O. Box 541,
Upland, Calif. Will buy butterflies for art work.

Heyburn, Mrs. Weldon B., Chad Ford, Pa. *Bot.: Ferns,*
Mosses, Fungi, Lichens.

Heye, Geo. G., Dir. of Mus. of the Am. Indian, Heye Foundation,
Broadway & 155th St., New York City. *Orn.,*
Arch. and Ethnol. C. Ex. and buy.

Hibbard, P. L., Asst. Prof. Plant Nutrition, Univ. of Calif.,
Berkeley, Calif.

Hibbard, R. P., Ph.D., Asst. Prof. Research, Assoc. in Plant
Physiol., Pathol., Mich. Agric. Coll., Lansing, Mich.

Hice, R. R., Geologist, Beaver, Pa. *Palaeo., Geol., Min.,*
Zool.

Hicks, Charles H., Biology Bldg., Univ. of Wis., Madison,
Wis. *Lepid.*

Hicks, Henry, Westbury, L. I., N. Y. *Plants of L. I.*

Hiestand, Wm. A., 423 Wis. Ave., Madison, Wisc. *Coleopt.*
C. Ex. and buy.

Higbee, Harry George, Supt. Moose Hill Bird Sanctuary,
Sharon, Mass. *Field Naturalist.* C. Orn., Ent. Bot.,
Photog., Sp. *Wild Life Protection.*

Higgins, Geo. B., 3127 N. Newstead Ave., St. Louis, Mo.
Arch., Hymen. C. Ex.

Higgins, Mortimer L. J., 158 Sargent St., Hartford, Conn.
Butterflies, Moths, Beetles. C. Ex. buys and sells.
Correspondence invited from all parts of the world.

Hill, Albert F., 250 Osborn Bot. Lab., Yale Univ., New
Haven, Conn. *Bot.*

Hill, Charles A., P. O. Box 653, Glendale, Calif. *Noctuidæ.*
Have large number of Lepid. from west to exchange
for desirable Noctuids. Will purchase entire season's
catch in Noctuids, or buy entire collections. Please
write.

Hill, Charles C., 227 Moreland Ave., Carlisle, Pa. *Ent.:*
Coleopt.

Hill, George A., Naval Observ., Washington, D. C. *Ast.*

Hill, George R., Jr., Prof. Bot., Agric. Coll., Botanist Utah
Expr. Sta., Logan, Utah.

Hill, Herman W., Box 11, Garland, Me. *Min., Fossils,*
L.F.W. and Marine Shells, Butterflies, Moths, Mounted
Mammals. C. Ex.

Hill, H. R., 1223 West 37th St., Los Angeles, Calif. *Shells.*

Hill, J. Ben, Prof. Bot., Penn. State Coll., State College, Pa.
Bot. Genetics. C. Ex. and buy seeds.

NATURALISTS' DIRECTORY

Hill, Robert R., District Forest Inspector, Forest Service, San Francisco, Calif.

Hill, Thomas S., Entwistle, Alberta, Can. *Shells, Fossils.*

Hill, W. K., A.M., Sc.D., Carthage, Ill. *Fresh water Algae Myxomycetes.*

Hill, W. M., 224 Walnut St., East Liverpool, Ohio. *Ent., Coleopt., Lepid.* C. Ex.

Hillebrand, W. F., Bureau of Standards, Washington, D. C. *Chem., Min.*

Hillman, Frederick G., 231 Pope St., New Bedford, Mass. *Arch., Eth., Con., Min., Geol., Bot., Zool., Phys., Mic., Geog.* C. Ex.

Hillman, Fred H., Botanist, U. S. Dept. Agric., Seed Laboratory, Dept. of Agric., Washington, D. C. *Seeds.* Ex.

Hills, C. B., P. O. Box 411, Bathurst, N. B., Can. *Lepid.* C. Ex. or buy. Interested in general.

Hills, R. C., Hon. Cur., Geol. and Min., 318 Ernest & Crammer Bldg., Denver, Colo.

Hills, Victor G., 2678 Hudson St., Denver, Colo. *Orn.*

Hilton, John W., Hermosa Beach, Calif. *Opals, Tourmalines, Gems, and Min. Spec.* for sale and to ex. for gem material. Indian relics, etc. Gems and specimens cut for reasonable rates or for ex.

Hilton, William A., Ph.D., (Cornell) Pomona College, Claremont, Calif. *Invert. Neurology.* C. Ex. Neurological slides and reprints.

Hindersman, Henry J., 712 Main St., Redfield, S. Dak. *All kinds of Nat. Hist. specimens.* Large coll.

Hine, Ashley, Chief Bird Taxidermist, Field Mus. of Nat. Hist., Chicago, Ill. *Birds.* C. Ex. and buy.

Hine, Jas. S., State Univ., Columbus, Ohio. *Dipt.*

Hinnen, G. A., B.S., M.D., Junior Otologist, 22 Fosdick St., Mt. Auburn, Cincinnati, Ohio. *Herpet., Amphib., Zool.* ?

Hinsdale, W. B., Univ. of Mich. Museum, Ann Arbor, Mich. *Orn., esp. Mich. Indian Antiquities.*

Hinsdale, Wm. G., M.D., 1123 E. Genesee St., Syracuse, N. Y. *Arch.* C. Ex.

Hinsham, H. C., B.A., Dept. Zool., Univ. of Pittsburgh, Pittsburgh, Pa. *Palaeo.*

Hinton, Robert T., Georgetown Coll., Georgetown, Ky. *Biol.*

Hisaw, Frederick L., Asst., Prof. in Zool., Zool. Dept., K.S.A.C., Manhattan, Kans. *Ecology of Aquatic Insects and Mammalian Ecol.* C. Ex. and buy.

Hirschy, Noah Calvin, Ph.D., Redfield Cottage, Redfield, S. Dak. *Bot.* C. of 2000.

Hiser, Mrs. O. F., Nevada, Iowa. *Catocala, Sphingidae.*

C. Ex. Bred Ia. *Catocala* in A1 condition, also ovæ and pupæ in season for sale.

Hitchcock, A. S., Bureau of Plant Industry, Dept. Agric., Washington, D. C.

Hitchings, E. F., 2 Summer St., Orono, Me. *Naturalist. General Coll. Seed Specialist.*

Hitt, Joel R., B.A., Clinton, Miss. *Bot., Zool.*

Hoadley, Charles W., 38 Winthrop Pl., Englewood, N. J. *Min.* C. Ex. and buy.

Hoar, Carl S., Asst. Prof. of Biology, Williams Coll., Williamstown, Mass. *Bot., Bacteriology.*

Hobbs, Edmund Everett, Sr., 735 Mary St., Utica, N. Y. ?

Hobbs, Kenneth L., Linden, Md. *Salamanders and other reptiles.* C. Ex.

Hobbs, Wm. H., Ph.D., Prof. of Geol., Univ. of Michigan, Ann Arbor, Mich.

Hobson, W. D., Woodstock, Ont., Can. *Orn., Bot.*

Hodge, Edwin T., Prof. Geol., Univ. of Ore., Eugene, Ore. *Min., Geol.* C. Ex.

Hodge, Frederick W., Mus. of the Am. Indian, Heye Foundation, Broadway at 155th St., New York City. *Eth., Arch.*

Hodge, James M., Big Stone Gap, Va. *Geol.*

Hodges, N. D. C., Librarian, Public Library, Cincinnati, Ohio. *Physics.*

Hoffman, Wm. E., Div. of Ent., Univ. Farm, St. Paul, Minn. *Aquatic and Semi-aquatic Hemipt.* C. Ex. and buy.

Hofman, Julian V., Forest Examiner, Dir. Wind River Expr. Sta., U. S. Forest Service, Carson, Wash. *Forest Succession, Ecology.*

Holden, R. J., Prof. Min., Virginia Polytechnic Inst., Blacksburg, Va. *Min.* C.

Holdredge, Leigh Irving, 27 Ford Ave., Oneonta, N. Y. *Lepid.* C. Ex. eggs and cocoons.

Holland, W. J., Ph.D., LL.D., Dir. Emer., Carnegie Museum, Pittsburgh, Pa. *Biol., Zool. in general, Bot., Coleopt., Lepid. of the world; Palæo.* Will exchange native and foreign Lepid. Has largest collection of Lepid. in private hands in America, the same being deposited in Carnegie Museum. Wish African moths.

Hollick, Arthur, Dir. Public Museum, Staten Island Assoc. of Arts and Sciences, Staten Island, N. Y. *Palæobotany.* ?

Hollinger, Jno. A., Dir. of Nature Study and Visualizations, High Schools, 722 Fulton Bldg., Pittsburgh, Pa. *Bot. and Nature Study in the elementary schools.*

Hollinshead, Miss Martha H., Moorestown, N. J. *Ferns.*

Hollister, N., Supt. Nat. Zool. Park, Smithsonian Inst.,

Washington, D. C. *Mammals, Birds.*
Holmes, Harry N., Prof. Chem., Oberlin, Ohio. *Colloids.*
Holmes, Samuel J., Prof. Zool., Univ. of Calif., Berkeley,
Calif. *Animal behavior, Genetics.*
Holmes, W. H., Dir. Nat. Gallery of Art, Smithsonian Inst.,
Washington, D. C.
Holms, Frank W., 35 Greene Ave., Norwich, Conn. *Mic.
C. Ex.*
Holroyd, Roland, Prof. Biol., La Salle Coll., Philadelphia,
Pa. *Biol.*
Holt, Ernest G., 312 Bell Bldg., Montgomery, Ala. *C. Biol-
ogy.*
Holterman, R. F., Brantford, Ont., Can. *Hymenopt.* C. ?
Holzinger, John M., 716 West Broadway, Winona, Minn.
Mosses. C. Ex.
Hoobs, Edmund Everett, Sr., 904 Ontario St., Utica, N. Y.
*Fossils and recent L.F.W. and M. Shells, Min., Gems,
Photos of Nature.* C. Ex.
Hood, J. Douglas, Univ. of Rochester, Rochester, N. Y.
Thysanoptera of the world.
Hooker, H. J., Jr., Univ. of Mo., Columbia, Mo. *Plant
Physiol. and Chem.*
Hooker, Dr. William Anson, Office of Exp. Sta., U. S. Dept.
Agric., Washington, D. C. *Dipt., Ixodoidea.* C. *Bibi-
onidae, Ixodoidea.* Ex.
Hooper, Frances P., Prof. of Biol., Miss. State College for
Women, Columbus, Miss. *Plant Physiol., Ecol.*
Hopkins, Arthur J., B.A., Ph.D., Amherst Coll., Amherst,
Mass. *Chem.*
Hopkins, George I., Cur. Manchester Inst., of Arts and
Sciences, 841 Beech St., Manchester, N. H. *Orn., Min.,
Biol., Ast.*
Hopkins, Prof. G. S., Cornell Univ., Ithaca, N. Y. *Vert.
Anat.*
Hopkins, Lewis S., 525 East Main St., Kent, Ohio. *Bot.* ?
Hopkins, T. C., Ph.D., Prof. of Geol., Syracuse Univ., Syra-
cuse, N. Y.
Hopping, Ralph, Dominion Forest Entomologist for B. C.,
Box 308, Vernon, B. C., Can. *Coleopt., Forest Insects.*
C. Ex.
Hopping, Roy, Editor, "The Geode," Box 133, Keokuk,
Iowa. *Geol., Min., Rocks, Fossils, Ent.* C. Ex.
Horich, J. H. W., Dept. of Highways, Harrisburg, Pa. *Bot.*
Hormell, W. G., Ph.D., Prof. Phys. and Dean of Men, Ohio
Wesleyan Univ., Delaware, Ohio.
Hornaday, William T., Dir. N. Y. Zool. Park, 183rd St., and
Southern Blvd., New York City. *Mam., Birds, Reptiles,
Wild Life Protection.*

Hornbeck, E. A., 109—19th St., San Diego, Calif. *Gems, Old Firearms.* C. Ex.

Horsey, R. I., Highland Park Greenhouses, Reservoir Ave., Rochester, N. Y. *Bot., Orn., Bird Banding and Migration.*

Horton, Robert E., 36 Down Blvd., Albany, N. Y. *Geol., Meteo., Hydrology.*

Hosenfelt, Geo. H., 3673 S. Broadway, St. Louis, Mo. *Ent. C. Ex.*

Hoskins, William, 111 W. Monroe St., Chicago, Ill. *Chem.*

Hosmer, Ralph S., Prof. Forestry and Head of Dept. of Forestry, N. Y. State Coll. of Agric., Cornell Univ., Ithaca, N. Y. *Forest Policy, Forest Protection, Forest History.*

Hotchkiss, Neil M., Dept., of Botany, Syracuse Univ., Syracuse, N. Y.

Hotchkiss, W. O., State Geologist of Wis., Madison, Wis.

Hotson, John W., Ph.D., Asst. Prof. in Botany, Univ. of Washington, Seattle, Wash.

Hough, Garry de N., M.D., New Bedford, Mass. *Scarabaeidae.*

Hough, Romeyn Beck, B.A., Lowville, N. Y. *Orn., Denrol.* Author and Publisher "AMERICAN WOODS," a publication illustrated by actual specimens; "HANDBOOK OF TREES," photo-descriptive, and "LEAF KEY TO THE TREES," a pocket guide. Preparations of woods and Studies of Trees for Stereopticon. Mounts of Woods for Microscope and Wooden Cross Section Cards.

Hough, Walter, Head Cur. Anthropol., Smithsonian Inst., Washington, D. C. *Ethnol., Arch., Art.*

Hough, W. S., Asst. Ent., Va. Crop Pest Conn., Winchester, Va. *Coccidæ. C. Ex.*

Houghton, Arthur D., A.M., M.D., 2251 Telegraph Ave., Berkeley, Calif. *Blyomias, botanically and horticulturally. Platyceriums (Stag-horn Ferns).* C. Ex. buy.

Houghton, Clarence, 533 Washington Ave., Albany, N. Y. *Orn.* Will sell library on birds to private collector only.

House, Homer Oliver, State Bot. of N. Y. Education Bldg., Albany, N. Y. *Canvolvulaceæ, Violaceæ, Orchidaceæ.*

Houser, Gilbert L., Ph.D., Prof. of Animal Biology, State Univ., Iowa City, Iowa. *Neurology, Cytology, Embryology.*

Houser, J. S., Assoc. Ent., Ohio Agric. Exp. Sta., Wooster, Ohio. *Econ. Ent., The Coccidæ.*

Hovey, E. O., A.B., Ph.D., (Yale) Cur. Dept. Geol. and Invert. Palæo., Am. Mus. Nat. Hist., New York, N. Y. *Geol., Min., Petrog.*

Hovey, Rev. Horace C., A.M., D.D., 71 Lime St., Newburyport, Mass. *Geol., Esp. Am. Caverns.* C. ?

Howard, Arthur Day, U. S. Fisheries Lab., Fairport, Iowa. *F. W. Mussels, Birds.* ?

Howard, Henry R., Box 72, Sta. A., Chattanooga, Tenn. *Tree Life, Birds, Indian Relics.*

Howard, L. O., M.D., Ph.D., Sc.D., LL.D., Chief, Bureau of Ent., U. S. Dept. of Agric., Washington, D. C. *Econ. Ent., esp. Parasitic Hymenopt.*

Howard, Walter L., Prof. Pomology, Univ. Calif., Univ. Farm, Davis, Calif. *Pomology.*

Howard, W. E., Inst. in Biol., 1417 Hayes St., Ottawa, Ill. *Orn., Bot.* C. Ex. and buy.

Howe, Clifton Durant, Faculty of Forestry, Univ. of Toronto, Toronto, Ont. *Forest Ecology.*

Howe, George R., A.B., Norway, Me. *Natural, Mental and Social Science and Advanced Education for boys and girls.* C. of general Nat. Hist. specimens. President of Maine Academy of Science.

Howe, Dr. Herbert A., Dir. of the Chamberlin Observatory, University Park, Denver, Colo. *Ast.*

Howe, Miss Inez Addie, Bot. & Inst., The Fairbanks Mus. of Nat. Sci., St. Johnsbury, Vt. *Orn., Bot., Herbarium.*

Howe, Jas. Lewis, M.D., Ph.D., Washington and Lee Univ., Lexington, Va. *Chem.*

Howe, Lucien, M.D., 520 Delaware Ave., Buffalo, N. Y. *Mic. (Eye)* C. Ex.

Howe, Marshall A., Ph.D., Sc.D., Asst. Dir. N. Y. Bot. Garden, Bronx Park, New York, N. Y. *Marine Algæ.* Ex.

Howe, R. Heber, Jr., Belmont, Mass. *Biologist: Odonata.*

Howell, A. B., Louisiana, Mo. *Butterflies, Moths.* Buy.

Howell, Arthur H., Biol. Survey, Dept. of Agric., Washington, D. C. *Geog. Dist., Orn., Ool., Mam.*

Howell, B. F., Princeton Univ., Princeton, N. J.

Howland, R. H., 164 Wildwood Ave., Upper Montclair, N. J. *Orn.*

Hoxie, W. J., Savannah, Ga., Box 111, Route A. *Bot., Orn., Gen. Nat. Hist.*

Hoy, Wm. Edwin, Jr., Inst. in Biol., Univ. of Rochester, Rochester, N. Y. *Cytology.* ?

Hoyt, Hiram C., The Gorham Co., Providence, R. I. *Conch.*

Hoyle, Clement, 9857 84th Ave., Edmonton, Alta., Can. *Ent.* Have collection in all orders.

Hoyt, Wm. D., Prof. of Biol., Washington and Lee Univ., Lexington, Va. *Algæ.*

Hubbard, A. E., M.D., 372 Franklin St., Buffalo, N. Y. *Trees (photographs) flowers, fruits.* C. Ex.

Hubbard, Geo. D., Prof. of Geol., Oberlin College, Oberlin,

Ohio. *Physiography, Geog.*
Hubbard, Marion Elizabeth, B.S., Prof. in Zool., Wellesley College, Wellesley, Mass. *Zool.*
Hubbard, Ralph, Asst. Biol. Dept. and Mus., Univ. of Colo., Boulder, Colo. *Birds, Mam. ?*
Hubbard, Samuel, 244 Montevite Ave., Oakland, Calif. *Orn., Anthrope.*
Hubbard, W., 3048 Wilson Ave., Chicago, Ill. *Ent. ?*
Hubbell, Theodore N., Dept. Biol., Univ. of Fla., Gainesville, Fla. *Ent. N. & C. Am. Orthoptera Ceuthophilus.* C. Desires N. A. Orthoptera especially from the Southwest.
Hubbs, Carl L., Mus. of Zool., Univ. of Mich., Ann Arbor, Mich.
Huber, G. Carl, M.D., Prof. Anat. and Dir. Anat., Laboratories, Univ. of Mich., Ann Arbor, Mich. *Histol., Emb., Anatomy Nervous System.*
Huber, H. E., Prof. Biol. and Dean Coll. Liberal Arts, Ohio Northern Univ., Ada, Ohio. *Parasitology.*
Huber, L. L., Asst. Ent., Ohio Agric. Expr. Sta., Worcester, Ohio. *Ent.: Chalcididae.*
Hubert, H. Edw., Prop. Ranara Biol. Sup. Co., 3615 Mel-pomene St., New Orleans, La. *All Biol. Spec.*
Hudson, Geo. H., 39 Broad St., Plattsburg, N. Y. *Biol., Geol.* Offers ferns, Lepid., L. and F. W. Shells and Ordovician (Champlain) Fossils. C. Ex.
Huelemann, Otto, P. O. Box 118, Wallace, Idaho. *Ent.: Lepid.* C. Sell and Ex. moths, butterflies, and other insects.
Huey, Laurence M., Cur. of Vertebrates, Nat. Hist. Mus., Balboa Park, San Diego, Calif. *Orn., Mamm.*
Huffington, Jesse M., Box 31, Clemson College, So. Car. *Bot., Agric.*
Hughes, Dr. Wm. E., 3945 Chestnut St., Philadelphia, Pa. *Orn., Mam.*
Hull, F. M., Dept. of Ent., Ohio State Univ., Columbus, Ohio. Flies, esp. *Syrphidæ, Tabanidæ, Stationydæ, Cystidæ*, etc. C. Ex.
Hulsberg, Edmund, 340 South Catherine Ave., La Grange, Ill. *Birds. Insects. Snakes.*
Humphrey, Edw. G., 166 Highland Ave., Somerville, Mass. *Con.* C. Ex.
Humphrey, H. B., Cereal Pathologist, Bureau of Plant Industry, Washington, D. C. *Ecol.*
Humphreys, R. L., Sec. Y. M. C. A., Fargo, N. D. *Birds, Geol., Relics of Ancient Men.*
Humphreys, W. J., Weather Bureau, Washington, D. C. *Phys., Meteo., Ast.*
Hungate, Joseph W., Head Dept. Sci. and Arts, State

Normal Sch., Cheney, Wash. *Orn., Mam., Ent.*
Hunter, Andrew F., M.A., Normal Sch., Bldg., Toronto,
Ont., Can. *Anth., Arch., Ethnog., Phys.*
Hunter, A. J., Tenlon, Man., Can. Collects insects, esp.
Syrphidae (*Diptera*).
Hunter, Samuel J., A.M., Univ. of Lawrence, Lawrence,
Kans. Prof. of Ent., Head of Dept., Cur. Ent., State
Ent. *Ent.: Homoptera*. C. and desire to ex. in all
orders.
Hunter, W. D., M.A., B.A., Ph.D., Dept. Agric., Washington,
D. C. *Ent., Dipt. C. ?*
Huntington, Ellsworth, Geographer, Yale Univ., New
Haven, Conn. *Arch., Ethnol.*
Huntington, J. Warren, Amesbury, Mass. *Bryol., Gen.*
Bot., Col. Mosses. Ex.
Hurtt, Leon C., Instructor Grazing, Forest Service, Mis-
soula Mont. *Ecol.*
Husler Lexemuel Ray, Prof. of Bot., Univ. of Tenn., Knox-
ville, Tenn. *Plant Pathology, Mycology, Histology.*
Hussakof, Louis, Ph.D., Curator of Fishes, American Mu-
seum of Nat. Hist., New York, N. Y. *Ichthyology. ?*
Hussey, Dr. Priscilla B., Biol. Dept., N. Y. Univ., Washing-
ton Sq., N. Y. City. *The Embryology of Insects, par-*
ticularly Hemipt. Desires eggs (killed and fixed ac-
cording to my directions) of all orders of insects.
Hussey, Roland F., Sc.D., Inst. in Biology, N. Y. University,
Washington Sq., New York City. *Hemipt., Emb. of*
insects. C. Ex.
Huston, Henry A., A.M., 81 Fulton St., New York
City. *Minerals and Plants of importance in Agric.*
Hutchinson, A. H., Prof. of Bot., Univ. of B. C., Vancouver,
B. C., Can. *Forest Ecol.*
Hyatt, Egbert, Stanfordville, N. Y. *Ast., Bot., Mic. Photog.*
Hyde, A. S., 606 Penn Ave., Urbana, Ill. *Orn.*
Hyde, Jesse E., Cur. Geol., Cleveland Mus. Nat. Hist., Cleve-
land, Ohio. *Geol., Palaeo.*
Hynes, Jeremiah A., 158 W. Harrison St., Chicago, Ill.
Mic.
Hyslop, James A., Bur. of Ent., Washington, D. C. *Ent.,*
Elateridae. C. Ex. and buy.
Ibsen, Heman L., Assoc. Prof. in charge Genetics, Animal
Inst. Dept., Manhattan, Kans. *Heredity, Guinea pigs,*
rabbits and rats. C. ex. or sell.
Iliff, Mrs. A. R., 5527 Pulaski Ave., Philadelphia, Pa.
Ent. ?
Iliff, Miss Cynthia W., 5527 Pulaski Ave., Germantown,
Philadelphia, Pa. *Bot.*
Illick, J. S., Dept. Forests and Waters, Harrisburg, Pa.
Trees, Forests, Wild Life.

Illingworth, Dr. James F., Specialist in Parasites, U. S. Bur. of Ent., Bishop Univ., Honolulu, T. H. *Econ. and Tax. Ent., Pacific Ent. esp. Diptera, Coleoptera, Orthop.*

Ingall, Elfric Drew, Mining Engineer, Geo. Surv. of Can., Assoc. Royal School of Mines of England, Ottawa, Ont., Can. *Mining Geol., Min., Petroleum and Nat. Gas.*

Ingersoll, A. M., 908 F St., San Diego, Calif. *Orn., Ool. C. Ex.*

Ingersoll, Ernest, Authors Club, New York City, *Mam.*

Ingham, Chas. H., 1340 Toberman St., Los Angeles, Calif. *Butterflies, Ornithoptera (exotic).* C. Ex.

Inglis, Robert A., Central Expr. Farm, Ottawa, Ont., Can. *Bot.*

Ingram, D. C., U. S. Forest Service, Portland, Ore.

Innecken, Kurt. F., P. O. Box 900, Savannah, Ga. *Lepid. C. Ex. buy or sell.*

Innes, Wm. T., 135 N. 12th St., Philadelphia, Pa. *Fancy aquaria fishes and amphibians.* Author of "Goldfish Varieties and Tropical Aquarium Fishes." C. Ex.

Ireland, W. H., Taft, Calif. *Rhopalocera, Noctuidæ.* C. Will ex. *Rhopalocera, rare noctuids.*

Iréneé, Brother, Maison principale des Frères du Sacré-Cœur, St. Hyacinthe, P. Q., Can. *Bot.*

Irish, H. C., 911 Locust St., Supervisor School Gardens, St. Louis, Mo. *Hort., Ent. Ex.*

Irving, John, Glen Cove, Nassau Co., New York. *Orn. ?*

Irving, Frank W., Waycross, Ga. *Orn.*

Isely, Frederick B., Dean and Prof. of Biol., Texas Women's Coll., Fort Worth, Texas. *Orthopt., Ecol. of F. W. Mussels.*

Isely, Miss Marian, Polytechnic, Tex.

Ives, Rev. Henry G., Amherst, Mass. *Chem., Min., Petrog.*

Ivey, Prof., Prof. Chemistry, Harbord Collegiate, Toronto, Ont., Can. *Ferns.*

Ivor, H. R., 260 Crawford St., Toronto, Ont., Can. *Birds.*

Jack, Prof. James Robertson, Mass. Inst. Technol., Cambridge, Mass. *Bot., Mic.*

Jack, John G., East Walpole, Mass. *Bot., Econ. Ent. C.*

Jackson, Anne W., 843 So. Church St., Jacksonville, Ill. *Nature Study, esp. Orn.*

Jackson, Eugene L., Exp. Sta., Lexington, Ky. *Vegetable Hist.*

Jackson, F. H., Angelica, N. Y. *Phog., Model Engineering.*

Jackson F. Slater, M.D., Zool. Lab., McGill Univ., Montreal, Can. *Zool., Bryozoa.*

Jackson, Hartley H. T., Bureau of Biol. Surv., U. S. Dept. of Agric., Washington, D. C. *Mam., Museum Methods.*

Jackson, Howard B., 17 Seaverns Ave., Jamaica Plain,

Mass. *Bot.*
Jackson, Prof. H. S., Purdue Univ., Lafayette, Ind. *Bot., Plant Pathol., Mycol., Rusts and Smuts.* C. Ex.
Jackson, Hartley H. T., Asst. Biologist, Biological Survey, U. S. Dept. Agric., Washington, D. C. *Mam., Orn.*
Jackson, H. S., Lafayette, Ind. *Bot., Parasitic Fungi.* C. Ex. ?
Jackson, Joseph, Prin. English High School, Worcester, Mass. Home address, 25 Woodland St., *Botany.* ?
Jackson, L. O., High School, Colorado Springs, Colo.
Jackson, Prof. Robert T., Peterborough, N. H., *Bot., Palao.*
Jackson, Ralph W., Route 1, Cambridge, Md. *Orn., Ool., Shells, Mamm.* C. Ex. Will purchase books on Orn., Ool., Shells and Mammals.
Jackson, W. F., Cur. Museum, Sacramento, Calif.
Jacques, Marjorie, State Normal Sch., Milwaukee, Wisc. *Training Normal Students in teaching Nature Study.*
Jaeger, Edmund C., Inst. in Zool., Riverside Junior Coll., Riverside, Calif. *Life histories of Mammals. Fauna and flora features of arid southwest.*
Jaffa, M. E., M.S., Prof. of Nutrition, Univ. of Calif., Berkeley, Calif. *Chem.*
Jagger, Ivan C., Univ. of Rochester, Rochester, N. Y. *Diseases of plants.* C. ?
James, Mrs. Arthur Curtiss, Newport, R. I. *Hort.*
James, A. J., 862 Estes Ave., Alamo Heights, San Antonio, Texas.
James, Lorne E., R. R. 3, St. Thomas, Ont., Can. *Ent. Collect Lepid. & Coleopt.—Can. and exotic. Collect also in other orders.*
Jameson, A. Pringle, Prof. of Zool., Mills College, Calif. *Protozool.*
Jane, W. T., Pres. Ill. State Mic. Soc., 5 W. Wabash Ave., Chicago, Ill. *Histol., Bacterial, Diatoms.* C. Ex. buy.
Jaques, Prof. H. E., Mt. Pleasant, Iowa. Dir. Student research in several Biol. fields. Ex. insects.
Jardine, James T., Dir. Ore. Agric. Expr. Sta., Agric. Coll., Corvallis, Ore.
Jastrow, Morris, Jr., Ph.D., Prof. of Semitic Languages, and Librarian, Univ. of Pa., Philadelphia, Pa. *Arch.*
Jay, Austin, 1622 Pennsylvania Ave., Los Angeles, Calif. *Orn., Conch.*
Jean, Frank C., Prof. Biol., Colo. State Teachers College, Greeley, Colo.
Jellett, Edwin C., 118 Hermann St., Germantown, Phila., Pa. *Bot., Orn.*
Jenkins, Anna Eliza, Bureau Plant Industry, Washington, D. C. *Mycol., Pathol.*
Jenks, Charles W., Bedford, Mass. *Orn.* C. ?
Jenner, E. A., M.A., Prof. Biol., Central College, Fayette,

Mo. Teacher Biol.

Jennings, J. E., Paullina, Iowa. *Butterflies and Moths.* C. Ex. ?

Jennings, O. E., Cur. Bot., Carnegie Mus., Prof. Bot., Univ. of Pittsburgh, Editor "Bryologist," 241 Oakland Ave., Pittsburgh, Pa.

Jennings, Herbert S., Henry Walters Prof., of Zool. and Dir. of the Zool. Labr., Johns Hopkins Univ., Baltimore, Md. *Protozoa, Animal Behavior or Comparative Psychology, Heredity and Variation.*

Jennison, H. M., Assoc. Prof. of Bot., Morrill Hall, Univ. of Tenn., Knoxville, Tenn. *Bot., Bact., Plant Physiol. and Pathol.*

Jensen, J. K., Santa Fe, N. Mex. *Birds eggs in sets. (World).* C. Ex.

Jensen, L. P., 1117 Arsenal St., St. Louis, Mo. *Bot.*

Jepson, Willis J., Ph.D., Prof. Bot., Univ. of Cal., Pres. Cal. Bot. Soc., 2712 Benvenue Ave., Berkeley, Cal. *Flora of Cal. and Western Am.*

Jewell, Albert E., 10 Stevens St., Methuen, Mass. *Min.* C. Ex.

Jewell, Harry, 23 Beatty Ave., Toronto, Can. *Diatoms. and Pond Life.*

Jewell, Minna E., Agric. Coll., Manhattan, Kans. *Ecol. Cestodes.*

Jewett, Prof. Frank F., A.M., Prof. Emer., Oberlin College, Oberlin, Ohio. *Chem., Min.*

Jewett, Franklin N., A.M., Fredonia, N. Y. *Geol., Chem., Ast., Nat. Philos.*

Jewett, H. H. Exper. Station, Lexington, Ky. *Ent.*

Jewett, S. G., Pendleton, Ore. *Mam., Orn.* C. ?

Jillson, W. R., State Geologist, Frankfort, Ky. *Geol.*

Job, Herbert K., 601 Washington Ave., West Haven, Conn. Head Dept. App. Orn., Nat. Assoc. of Audubon Societies. *Orn.*

Johannsen, Oskar Augustus, Prof. of Ent., Cornell Univ., Ithaca, N. Y. *Biol. of Diptera.*

Johansen, Fritz, Dept. of Marine and Fisheries, Ottawa, Ont., Can. *Marine fish and larger fresh water crustaceans.*

Johnson, Charles Eugene, A.M., Ph.D., Prof. of Forest Zool., Dept. of Forest Zool., N. Y. State Coll. of Forestry, Syracuse, N. Y. *All matters pertaining to the Nat. Hist. and Ecology of Mammals, Birds and Reptiles of N. A.*

Johnson, Charles F., 208 Van Buren St., Freeport, Ill. *Bot.: Phæn. and Crypt. Plants, Ferns.* C. Ill. plants from La Salle and Stephens on Counties.

Johnson, Charles W., Assoc. Editor of "The Nautilus,"

Curator Boston Soc. of Nat. Hist., Boston, Mass. *Dipt.*,
Moll. C. Ex.

Johnson, Douglas W., Columbia Univ., New York City.
Physiography.

Johnson, Duncan S., Prof. Bot., Johns Hopkins Univ., Baltimore, Md. *Plant Morph., Ecol. of Marine plants and Cactii, Development of Liverwort, Ferns and Seed Plants.* Ex. Jamaica for New Zealand ferns.

Johnson, Frank, Room 1775, 50 Church St., New York City.
Lepid. C. Ex. and buy.

Johnson, Frank Edgar, 16 Amackassin Terr., Yonkers.

Johnson, Frank W., 1362 Amherst St., Buffalo, N. Y. *Flowering plants and ferns.* Collecting Western N. Y. Flora.

Johnson, George A., Taxidermist, Marshall, Mich. *Nat. Hist., Zool., Shells.* C. Ex. and sells birds, shells.

Johnson, Grace Pettis, Dir. Mus. of Nat. History, Springfield, Mass. *Min., Bot. Orn.*

Johnson, Harry L., South Meriden, Conn. *Insects of all orders.*

Johnson, Herbert P., Ph.D., Cedaredge, Colo. *Morphol., Annelids.*

Johnson, H. H., Dept. Zoology, College of the City of New York, New York, N. Y.

Johnson, Ivan H., Gray Herb., Cambridge, Mass. *Bot.: Am. Flowering Plants.*

Johnson, James O., 310 N. Main St., Southington, Conn. *Eggs of tortoise and turtles in sets. Choice sets of Hawks.*

Johnson, J. Harlan, Asst. Prof. of Geol., Colo. School of Mines, Golden, Colo. *Fossils and Indian relics.* C. Ex.

Johnson, John C., Dean of the Western State Coll. of Colo., Gunnison, Colo. *Birds and Mam.*

Johnson, Prof. Roswell H., 1039 Murrayhill Ave., Univ. of Pittsburgh, Pittsburgh, Pa. *Lady beetles.*

Johnson, S. Arthur, Assoc. Prof. of Ent. and Dean of the Faculty, State Agric. College, Ft. Collins, Colo.

Johnson, Walter W., 4 Parkway, Stoneham, Mass. *Geol., Palao.* C. Ex.

Johnson, Wm. S., Lyons, N. Y. *Mam., Orn.* C.

Johnston, Earl Lynde, Prin. Schools, Sligo, Colo. *Bot.* Have many Colo. plants in duplicate which I shall be glad to sell.

Johnston, Dr. E. S., Assoc. Plant Physiologist, Md. Expr. Sta., College, Park, Md.

Johnston, Robt. A. A., 197 Bronson Ave., Ottawa, Can. *Min., Meteorites.*

Johnston, W. D., 2308 Monroe Ave., Norwood, Ohio. *Geol..*

Palaeo.
Jonas, A. F., M.D., 106 So. 31st Ave., Omaha, Nebr. *Min., Geol. C. Buy.*
Jones, Benj. S., Inspect. in Charge, U. S. Dept. Agric., 413 Old Customs House, St. Louis, Mo.
Jones, Charles H., 53 N. Walnut St., East Orange, N. J. *Min. C. ?*
Jones, Charles R., Fort Collins, Colo. *Ent., Dipt.: Syrphidae. Ex. ?*
Jones, Dettmar, Corn Borer Lab., 10 Court St., Arlington, Mass. *Econ. Ent.*
Jones, Frank M., 2000 Riverview Ave., Wilmington, Del. *N. A. Lepid. Desires Psychidae native and exotic.*
Jones, Henry Champion, Boston Latin School, Boston, Mass. *Bot.*
Jones, Howard, A.M., M.D., Circleville, Ohio. *Orn., Ool., Gen. Nat. Hist.*
Jones, J. Claude, Prof. of Geol. & Min., Univ. of Nevada, Reno, Nev. ?
Jones, J. Paul, Mus. of Zool., Univ. of Mich., Ann Arbor, Mich. *Herpetol.*
Jones, Lewis Ralph, Prof. of Plant Pathology, Univ. of Wis., Madison, Wisc. *Parasitic Fungi and Bacteria.*
Jones, Lombard C., M.D., Falmouth, Mass. *Orn. C.*
Jones, Lynds, M.S., Ph.D., Spear Laboratory, Oberlin, Ohio. *Zool., Orn., Ent. C.*
Jones, Prof. Marcus E. A.M., 1248 College Ave., Claremont, Calif. *Syst. Bot., Econ. Geol.*
Jones, Percy L., Beulah, Pueblo, Co., Colo. *Hort., Mam., Orn., Ool. C. Ex.*
Jones, R. F., Proprietor of the Longfellow Zoological Gardens, Minnehaha Falls, Minneapolis, Minn. *All kinds of birds and Animals.*
Jones, S. Paul, 204 Frame Ave., Waukesha, Wis. *Birds. Mam., Trees, Flowers.*
Jordan, David Starr, Prof. Zool., Ex. Pres. Chancelor Emeritus, Leland Stanford Jr. Univ., Stanford Univ., Calif. *Fishes, Vert. generally, Bot., Geol., Geog., Eugenics, C. Ex. fishes.*
Jordan, Eric Knight, Stanford Univ., Calif. *Geol., Moll., Fishes. C. Ex.*
Jordan, Frank D., 202 White Bldg., Seattle, Wash. *Indian Curios.*
Joutel, Louis H., 164 East 117th St., New York, N. Y. *Coleopt., Lepid., Diptera. C. ?*
Juday, C., Lecturer in Zool., Univ. of Wisc. Biologist, Wisc. Geol. and Nat. History Survey, 35 Lathrop St., Madison, Wisc.
Judd, C. S., Box 3319, Honolulu, T. H. *Forestry.*

Judd, Neil M., Cur. Am. Arch., U. S. Nat. Museum, Washington, D. C. *Arch.* ?

Julien, Fanny, 964 Lexington Ave., New York, N. Y. *Bot., Algae, Mic.*

Kaeber, Harry A., 2349 S. Lambert St., Philadelphia, Pa. *Coleopt. C. Ex.* ?

Kahl, Hugo, Carnegie Museum, Pittsburgh, Pa. *Odonata.*

Kahnenberg, Louis, Ph.D., Prof. of Chem., Univ. of Wisconsin, Madison, Wis. *Chem.*

Kaiser, George B., 6620 Germantown Ave., Philadelphia, Pa. *Bot., Bryology, Lichenology.* C. and Ex. mosses and lichens.

Kaiser, Justus, 9429 97th St., Woodhaven, L. I., N. Y. *Lepid., Native and exotic. Living pupæ and ovæ.* C. ex. and buy.

Katzenberger, Geo. A., LL.B., Cur. of Museum, Carnegie Library, Greenville, Ohio. *Arch. C. of curios.*

Kauffman, Calvin H., Ph.D., Prof. of Bot., Univ. of Mich., 1236 Prospect St., Ann Arbor, Mich. *Bot.: Fungi.* C.

Kaufman, Pauline, 173 East 124th St., New York, N. Y. *Bot.*

Kay, Geo. F., State Geologist, Head Dept. of Geol., State Univ. Bella Vista Pl., Iowa City, Iowa. *Geol.*

Kearney, Thomas H., Bureau of Plant Industry, U. S. Dept. of Agric., Washington, D. C. *Plant Physiol. and cotton breeding.*

Keely, Miss Hanna, Prof. of Art., Schwenksville, Pa. All nature forms, esp. *Lepidoptera.*

Keith, Arthur, U. S. Geol. Surv., Washington, D. C. *Geol.*

Keith, Edw. D., 200 Sackett St., Providence, R. I. *Lepid. C.*

Keith, M. L., 65 Court St., Auburn, Me. *Mining and cutting Maine Gems.* C. Ex. and sell Maine Minerals.

Keller, G. Edwin, 89 Washington Rd., Buffalo, N. Y. *Bot. Plants of Western N. Y.* C. Ex.

Keller, George J., A.M., Ph.D., 1019 Broad St., Newark, N. J. *Life History of Catocalæ.* C. of Lepid.

Kelley, Harriet P., Francis Parker Sch., San Diego, Calif. *Bot., Orn., Nature Study.*

Kelley, Dr. James, Dept. of Botany, State College, Pa.

Kellogg, James L., Prof. Biol., Williams College, Williams-town, Mass. *Mollusca.*

Kellogg, John H., Mo. Botanical Garden, St. Louis, Mo. *Bot.*

Kellogg, V. L., Nat. Research Council, Washington, D. C. *Mallophaga, Anoplura.*

Kellum, L. B., Johns Hopkins Univ., Baltimore, Md. *Geol., Palæo.*

Kelly, E. C., 385 Birr St., Rochester, N. Y. *Arch.* C. Ex.

Kelly, Harry McCormick, A.B., A.M., LL.D., Prof. of Biol.,

Cornell College, Mount Vernon, Iowa. *Trematodes*.
Kelly, Howard Atwood, Prof. Emer., Johns Hopkins Univ.,
1406 Eutaw Pl., Baltimore, Md. *Fungi, Lichenology,*
Herpetol. Buy in specialties.
Kelly, Dr. James P., Assoc. Prof. of Bot., Penn. State Coll.,
238 S. Gill St., State College, Pa. *Genetics, esp. hered-*
ity of flower color and form. Potato breeding, Tax-
onomy of ferns and seed plants of E. U. S.
Kelly, Wm. E. M., Iron Mountain, Mich. *Min., Metall. C.*
Ex.
Kelsall, A., Dominion Embryologist, Laboratory, Annapolis
Royal, N. S., Can. *Insecticides*.
Kelsey, Harlan P., Hawthorne Bldg., Salem, Mass. *Bot.*
Kelso, J. E. H., M.D., Edgewood, Arrow Lakes, B. C., Can.
Orn.
Kelty, Russell H., Asst. Prof. of Ent. and Apiculture, East
Lansing, Mich. *Apiculture*.
Kemper, Will W., P. O. Box 258, Bremen, Ohio. *Indian*
Curios and Nature's handicraft.
Kempton, Forest Ellward, Cereal Investigations, Bureau
of Plant Inv., Dept. of Agric., Washington, D. C. *Plant*
diseases.
Kendall, Oliver, Jr., 242 Sackett St., Providence, R. I.
Diatoms: Recent and Fossil. C. of crude and cleaned
specimens. Ex. slides of samples preferably from
marine or brackish deposits.
Kendrick, James B., Asst. Bot., Purdue Agric. Expr. Sta.,
Lafayette, Ind. *Plant Pathol.*
Kenety, W. H., Dir. Cloquet Expr. Sta., Asst. Prof. Univ. of
Minn., Cloquet, Minn. *Conifers.* ?
Kennard, Frederic H., Dudley Rd., Newton Center, Mass.
Orn. ?
Kennedy, Clarence H., Dept. of Zool. and Ent., Ohio State
Univ., Columbus, Ohio. *Odonata*.
Kennedy, Dr. Harris, Readville, Mass. *Geol., Min. C.*
Kennedy, Wm., Red Bank, N. J. *Indian Relics*.
Kennerly, Miss Martha M., Hunter College, N. Y. *Zool.*
Kent, Duane E., 39 Morse Place, Rutland, Vt. *Birds, Eggs,*
Small Mammals. C.
Kent, Perley E., Poway, San Diego, Calif. *Orn., Ool.*
Kent, Scientific Museum, H. L. Ward, Director, Grand
Rapids, Mich. *Nat Hist., Ethnol., Arch.* C. buy.
Kenyon, W. A., Inst. Zool., Biol. Bldg., Univ. of Wis.,
Madison, Wis. *Animal Ecol., Behavior and Physiol.*
Kepner, William Allison, 29 University Pl., University, Va.
Protozoa, Animal Histology.
Kerkhof, Miss Julia A., Executive Man. and Treas., Inter-
national Camps for Boys and Girls, Gorham, N. H.
Kermode, F., Director Provincial Museum, Victoria, B. C.,

Can.

Kern, Dr. Frank D., Prof. of Botany, and Dean of Graduate School, State Coll., State College, Pa. *Fungi*. C. of Plant Rusts.

Kershaw, Wm. B., 44 Hicks St., Pawtucket, R. I. *Mic., Diatoms, Desmids*. ?

Kervey, H. Rush, M.D., 104 W. 87th St., West Chester, Pa. *Ent.*

Keyes, W. H., Rowley, Mass. *Lepid., Min.* C. Ex. ?

Keyworth, Thos., Box 372, Marissa, St. Clair Co., Ill. *Ent.:* *Lepid.*

Kibbe, Alice L., Prof. of Biol., Carthage Coll., Denhard Hall, Carthage, Ill. *Taxonomy, or any other line of Bot. or Zool.* C. Ex. buy.

Kierann, Edw. W., East Orange, N. J. *Ent.* ?

Kilborne, Fred L., B. Agric., B.V.S., Kelloggsville, N. Y. *Veterinarian, Seeds.*

Kilbourn, A. Gray, 1219 No. 54th St., Phila., Pa. *Ent.*

Kilbourne, Mrs. Helen H., Poultney, Vt. *Birds, Flowers.*

Kilgore, Wm., Jr., Cur. Zool. Mus., Univ. of Minn., Minneapolis, Minn. *Orn.*

Killip, Ellsworth P., Smithsonian Institution, Washington, D. C. *Bot. Esp. interested in So. Am. plants.*

Kilmer, Frederick B., Ph.C., 147 College Ave., New Brunswick, N. J. *Crude Drugs.*

Kimball, H. H., Patagonia, Ariz. *Orn., Ool., Lepid.* C. Buy ornithological material only.

Kincaid, Trevor, Prof. of Zool., Univ. of Wash., Seattle, Wash. *Ent., Con., Gen. Zool.*

Kindig, B. F., Dept. of Agric., Lansing, Mich. *Bees.*

Kindle, E. M., Ph.D., Geol. Survey, Ottawa, Can. *Palaeo. Devonian fossils desired in ex. for Palaeozoic fossils.*

King, Ada M., 22 Ardmore St., Rochester, N. Y.

King, Arthur Scott, Supt. Physical Laboratory, Mt. Wilson Observatory, Pasadena, Calif. *Spectroscopy.*

King, Francis, 100 Orchard St., Alma, Mich. *Lepid.*

King, Fred, 1588 Crites St., Los Angeles, Calif. *Lepid.* C.

King, Helen D., The Wistar Inst. of Anat. and Biol., Philadelphia, Pa.

King, J. Lionel, 3233 Carnegie Ave., Cleveland, Ohio, Assistant Entomologist, Ohio Expr. Sta., *Ent.: Sesiidae*. ?

King, Philip, Box 533, Iowa City, Iowa. *Geol., Geog.*

King, Robert L., Inst. in Zool., Univ. of Penn., Philadelphia, Pa. *Orthoptera.*

King, Wilbur L., Bethlehem, Pa. *Con., Bot., Mic., Ent., Coleopt.* C. Ex.

Kingsley, A. F., M.D., 301-4 City Nat. Bank Bldg., Battle Creek, Mich. *Tree Conservation.*

Kingsley, J. S., 2500 Cedar St., Berkeley, Calif. *Vert.*

Morphology.

Kinner, Hugo, M.D., 1103 Rutger St., St. Louis, Mo. *Eth., Arch. C.?*

Kinsey, Alfred C., Asst. Prof. Zool., Indiana Univ., Bloomington, Ind. *Ent.; Cynipidae.* C. Ex.

Kinsman, L. T., 375 Hyde Park Ave., Roslindale, Mass. *Ent.?*

Kircher, Chas., 220 Olmstead Pl., Glendale, L. I., N. Y. *Ent.*

Kirchoff, Oscar C., 162 Lindhurst St., Rochester, N. Y. *Osteology, Biology, Ent.* C. Ex. butterflies.

Kirk, George L., Rutland, Vt. *Orn., Mam., Bot.* C. Ex.

Kirk, Harry B., 1902 North St., Harrisburg, Pa. *Ent.* Ex. and buy *Elateridæ.*

Kirkbride, Wanda M., Manhattan, Kans. *Bot.?*

Kirkwood, F. C., Monkton, Md. *Vert. fauna of Md.*

Kirkwood, J. E., Ph.D., Prof. of Botany, State Univ. of Mont., Missoula, Mont. *Morphology, Ecology.* Exchanges desired.

Kitchin, Thurman D., B.A., M.D., Prof. Physiol., Wake Forest Coll., Wake Forest, N. C.

Kitto, V., Dept. of Health, 317 Queen St., Ottawa, Ont., Can.

Kittredge, Joseph, Jr., Forester, Lakes States Forest Expr. Sta., Univ. Farm, St. Paul, Minn. *Orn., Trees and flowers.*

Klages, Edward, A., Crafton, Pa. *Ent.: Coleopt.*, esp. rich in Venezuelan species. C. Ex. only for perfect specimens with complete data.

Klages, H. G., Carnegie Mus., Pittsburgh, Pa. *Coleopt.* C. Ex.

Klatz, Charles, Winnetka, Ill. *Orn.*

Klugh, A. Brooker, M.A., Queen's Univ., Kingston, Can. *Entomostraca, Algae, Can. Birds and Mammals.*

Knabe, Wm. C., 3853 N. Grotz St., Philadelphia, Pa. *Min.*

Knapke, Rev. Bede, O.S.B., St. Bernard Coll., St. Bernard, Ala. *Plants in general, Crypt.: Myxomycetes, F. W. Algae, Desmids, Diatoms, Lizards and Snakes.* C. Ex. and buy.

Knapp, R. E., 1037 Philip Ave., Detroit, Mich. *Bacteriology.*

Knaus, Warren, M.Sc., McPherson, Kans. *Coleoptera of N. A., Econ. Ent.* C. of 8000 species of Coleopt. Sell and Ex.

Knauz, Marie B., Supervisor of Nature Study, 1212 Trevonian Ave., Swissvale, Pa. *Bot., Orn.*

Knaw, R. I., 5523 Virginia Ave., St. Louis, Mo. *Ent.?*

Kneer, F. G., M.D., 219 West 78th St., New York, N. Y. *Phys., Elect., Mic., Photog., Anat. and Histol. of Vert.*

Knight, Harry H., Asst. Prof. Ent., Univ. Farm, St. Paul,

Minn. *Heteroptera, Miridae.*

Knobel, Louise, 502 So. Pine St., Hope, Ark. Will collect insects in any order by special arrangement. Refers to edition of Directory.

Knopf, Adolph, Ph.D., Prof. of Phys. Geol., Yale Univ., New Haven, Conn. *Econ. Geol.*

Knowlton, C. H., 50 Beacon St., Boston, Mass. *Bot.*

Knowlton, Frank Hall, Geologist, U. S. Geol. Survey, Washington, D. C. *Fossil Plants, Birds.*

Knudson, Lewis, Prof. of Plant Physiology, Coll. of Agr., Cornell Univ., Ithaca, N. Y. ?

Knull, Joseph N., 288 W. Main St., Hummelstown, Pa. *Buprestidae, Cleridae, Cerambycidae.* C. Ex. or buy.

Kny-Scheerer Corp. of Am., The, 119-125—7th Ave., New York, N. Y. *Museum and Laboratory Supplies, Scientific Apparatus, Instruments and Preparations, Natural History Specimens, Naturalists' supplies.*

Koch, Julius A., Prof. Chem., Pittsburgh Coll. of Pharm., Bluff and Pride Sts., Pittsburgh, Pa. *Min., Chem., Physics.* C. Ex.

Koch, Louis H., 1422 Euclid Ave., Philadelphia, Pa. *Min., Chem., Mic.* C.

Koehler, Fred, Livingston, Mont. *Tax., Orn.* C. ?

Koelz, Walter, Investigator, U. S. Bureau of Fisheries, Dept. of Zool., Univ. of Mich., Ann Arbor, Mich. *Fishes, Birds, Mammals.* C. Ex. and buy.

Koenig, Adolph, M.D., Edgewood, Pittsburg, Pa. *Bot., Phæn., Plants and Ferns.*

Kofoid, Prof. Charles A., Prof. of Zool., Univ. of Calif., Berkeley, Calif. *Protozoa, Plankton, Parasites.* C. of Protozoa and Parasites.

Kohl, Edwin J., Inst. in Plant Pathol., Purdue Univ., 218 Fowler Ave., West Lafayette, Ind. *Fungi that cause disease.*

Kohlman, A. F., 1423 Marshall St., Milwaukee, Wis. *Ent., Bot.*

Kolloch, Niven C., Warren, Me. *Orn., Ool.* C. Ex. ?

Kopman, Harry H., Federal Building, New Orleans, La. *Orn.*

Korstian, Clarence F., Assoc. Silviculturist, Appalachian Forest Expr. Sta., Asheville, N. C. *Forest Trees and Forestry.*

Kostir, W. J., Dept. Zool., Ohio State Univ., Columbus, Ohio. *Orthoptera, Gen. Biol., Protozoa.*

Kraatz, Walter C., Univ. of Wis., Biology Bldg., Madison, Wis. *Gen. Zool., Ent.* ?

Kraebel, Chas. J., Board of Agri. and Forestry, Honolulu, T. H.

Kramer, Dr. S. P., 826 Glenwood Ave., Cincinnati, Ohio. *Nervous System and Research Work.*

Krauch, Herman, Forest Examiner, U. S. Forest Service,
Parvenir, N. Mex. *Gymnosperms.*

Kraus, Edw. H., Prof. of Crystall. and Min., and Dir. Min.
Lab., Univ. of Mich., Ann Arbor, Mich. *Min., Rocks.*

Krautz, Walter C., B.A., M.A., Ph.D., Asst. Prof. of Zool.,
Miami Univ., Oxford, Ohio. *Gen. Zool., Ent., Evolution.*

Krebs, Carl, 3532 W. 41st St., Cleveland, Ohio. *Bot.?*

Krecker, Frederick H., Prof. of Zool., Ohio State Univ.,
Columbus, Ohio. *Ecological and Parasitological phases
of Zool.*

Kremers, Edw., Madison, Wis. *Plant Chem.*

Kretzman, Prof. Paul Edward, 3705 Texas Ave., St. Louis,
Mo. *Orn., Mam. C.*

Krey, Frank, State Geological Survey, Urbana, Ill.

Krout, Dr. A. F., Glenolden, Pa. *Mosses and Hepatics. C.
Ex.?*

Krueger, Carl F., 1951 Cleveland Ave., Chicago, Ill. *Ent.
C. Ex. and buy.*

Krull, Wendell H., Grad. Asst., Dept. Zool., State University, Iowa.

Kubichek, Wesley F., Inst. Dept. Biol., Cur. Coll. Mus., Coe
College, Cedar Rapids, Iowa. *Orn., Mam. C. Ex.*

Kudlich, Hermann F., M.D., 104 West 87th St., New York
City. *Orn., Coleopt. C.*

Kuhn, Miss Maria L., 402 Illinois Ave., Peoria, Ill. *Phæn.
Bot. C.*

Kummel, Henry B., State Geologist of New Jersey, Trenton, N. J. *Geol.*

Kunkel, L. O., Thompson Institute, Yonkers, N. Y. *Bot.*

Kunz, Dr. George F., Gem Expert, Tiffany & Co., 409 Fifth
Ave., New York, N. Y. Precious stones and meteorites
wanted. *Precious stone literature, Arch., Jade, Radi-
um, Pearls. C. Ex. gems and fine minerals.*

Kurata, T. B., Royal Ont. Museum, Toronto, Ont., Can.
Fish, Reptiles, Amphibians.

Kuschel, Richard, 1420 N. Artesian Ave., Chicago, Ill.
Lepid., Plants. C. Ex. or sell.

Kuser, J. Dryden, Bernardsville, N. J. *Orn.*

Kushner, Jno. W., 223 So. Third St., Reading, Pa. *Ent.*

La Bril, Willie, Kamouraska, P. Q., Can. *Orn. Collects, ex.
or sell N. A. Birds.*

Lacroix, Don G., Cranberry Expr. Station, East Wareham,
Mass. *Econ. Ent., Leaf Hoppers, Cranberry Insects.*

Ladd, E. F., U. S. Senator from N. D., Fargo, N. D. *Chem.*

Ladd-Franklin, Dr. Christine (Mrs. Fabian Franklin), Lec-
turer in Columbia Univ., in *Psychology, Logic., New
York, N. Y.*

Ladd, Harry S., Old Science Hall, Univ. of Iowa, Iowa City,
Iowa. *Invert. Palæo., Orn., Ent. C. Ex.*

Lagai, George, Ph.D., Richmond Hill, N. Y. *Chem., Zool., Ent., Min.* C. Lepid.

Lahee, Frederic Henry, Institute of Technology, Cambridge, Mass. *Geol.* ?

Lakey, Mrs. Edgar C., 241 Sackett St., Providence, R. I. *Wild Flowers.*

Lamar, J. E., State Geological Survey, Urbana, Ill.

Lamb, G. F., Prof. Geol. 233 Hartshorn St., Alliance, Ohio. *Geol., Palæo.* C. Ex. and buy.

Lamb, Wm. Harrison, Nat. Press Club, Washington, D. C. and "Royal Oaks" Clifton Station, Va. *Bot., N. A. Trees.* C. Ex. herbarium spec. of trees and desires apec. of *Ceanothus.*

Lambert, Earl L., 237 No. First St., Carthage, Ill. *Bot., Orn.*

Lambert, Prof. Fred D., 120 Curtis St., Tufts College, Mass. *Bot.*

Lamborn, Raymond E., Inst. Geol., O. S. U., Orton Hall, Columbus, Ohio. *Geol.*

Lampe, Lois, Dept. of Botany, Ohio State Univ., Columbus, Ohio.

Lamprey, Mrs. E. S., 2 Guild St., Concord, N. H., *Min., Bryol. and Fern Bulletin.* ?

Lamson-Scribner, Prof. Frank, U. S. Dept. Agric., Washington, D. C.

Landenberger, Amelia, 69 Airedale Terrace, East Orange, N. J. *Lepid.*

Landes, H., Dean College Science, Univ. of Washington, Seattle, Wash. *Geol.*

Landsea, Oscar E., 1710 Oak St., Chicago, Ill. *Ent.* ?

Lane, Dr. Alfred Church, Tufts College, Mass. *Geol.*

Lane, Rufus M., 25 Grove St., Great Barrington, Berkshire Co., Mass. *Min., Arch.*, C. of 5,000 specimens. Ex.

Lang, Charles I., Jr., 130 Fifth Ave., Roselle, N. J. *Bot., Conch., Orn.* Buy shells, corals, etc. and books.

Lang, Jos. N., 1433 So. 59th Ave., Cicero, Ill. *Butterflies, Moths.* Living pupæ for sale. C. Ex. and buy.

Langdon, F. W., M.D., 4003 Rose Hill Ave., Cincinnati, Ohio. *Neurology, Zool., Orn., Anth.*

Lange, Richard C., Lab. Asst., U. S. Ent. Lab., Webster Groves, Mo. *Ent., Coleopt., Lepid.* C. Ex. and buy.

Langelier, Miss G., Experimental Farm, Cap Range, Que., Can. *Bot.* C. Ex.

Langelier, Gus., Supt. Agric., Expr. Station, Cap Range, P. Q., Can. *Orn.* C. Ex. and buy bird skins.

Langford, Geo., R. D. 4, Joliet, Ill. *Arch., Anth., Palæo.*

Langford, Geo. S., Asst. in Ent., Univ. of Md., College Park, Md. *Ent., Pathol.*

Langston, J. M., Agricultural College, Miss. *Ent.: Lachno-*

sterna.

Langworthy, C. F., Ph.D., D.Sc., Specialist in Respiration, Colorimeter investigations, U. S. Dept. of Agric., Washington, D. C. *Chem.*

Lano, Albert, 120 N. Block St., Fayetteville, Ark. *Orn.* C. Ex. buy.

Larrabee, Austin P., Prof. of Biol., Yankton Coll., Yankton, S. D. *Orn., Ent.: esp. Lepid.* C. Ex.

Larsen, Esper S., Harvard Univ., Cambridge, Mass. *Geol., Petrol., Min.* C.

Larsen, Julius Ansgar, Priest River Expr. Sta., Priest River, Ida. *Forestry.* ?

Larson, A. O., Asst. Ent., P. O. Box 297, Alhambra, Calif. *Bruchids.*

La Rue, George R., Assoc. Prof. of Zool., Univ. of Mich., Ann Arbor, Mich. *Tapeworms of fish, reptiles, amphibia.*

Lastreto, C. B., A.B., A.M., 260 Calif. St., San Francisco, Calif. *Orn.*

Latchford, Hon. Chief Justice, 151 St. George St., Toronto, Ont., Can. *Sphaeridae.* C.

Latham, Ray, Orient, L. I., N. Y. *Birds, Fish, Ent., Bot., Indian Relics.* C.

Latham, V. A., M.D., D.D.S., F.R.M.S., F.S.Sc., 1644 Morse Ave., Rogers Park, Chicago, Ill. Member Ill. Chicago Acad. Sci., Late Director of the Micros. Laboratories of the College, and Prof. in Pathol. Bacteriol., and Histology, Curator of the Museum, Cor. Sec. State Micros. Society of Ill., Cor. Member Manchester (Eng.) Mic. Soc., Juckett Club, London, Mem. Phil. Mic. Soc. N. Y. *Bot., Mic., Biol., Hist., Pathol., Bact.* C. Ex. of gross material in Pathology, Histol. and Slides, Photog. General Microscopy and Lantern Slides. Ex. sell and buy Micro. Material Journals, etc.

Lathrop, Frank H., Asst. Ent., N. Y. Agric. Expr. Sta., Geneva, N. Y. *Cicadellidae.* C. Ex. Desires Southwestern material especially. Will ex. material from southeast and northwest.

Lattin, Frank H., M.D., Albion, N. Y. Formerly Publisher "Oologist," Jobber in books for naturalists, sea shells, specimens and curiosities. *Arch.*, Thousands of duplicates for sale or exchange. C. Ex.

Lauman, George Nieman, B.S.A., Prof. Rural Economy, Cornell Univ., Ithaca, N. Y. *Econ. Bot., Phenology.*

Laurent, Philip, 31 E. Mt. Airy Ave., Philadelphia, Pa. *Coleopt. Lepid., Orn.* C. Ex. Will buy or give good exchange for Pamphila and Catocala of the Eastern U. S. not in my collection.

Lavoie, Raoul, L'Islet, Co. L'Islet, P. Q., Can. *Orn., Ent.*

Law, Edward S., Box 4, Charlemont, Mass. *Min. and Geologic* Coll. for private and public interests. Scientific illustrator and letterer of labels for collections.

Law, J. Eugene, 2370 Altadena Drive, Altadena, Calif. *Birds, Mam., Reptiles, Eggs.* C. Ex. Wishes to buy.

Lawrence, Prof. W. E., Ore. Agric. Coll., Corvallis, Ore.

Lawson, Prof. Andrew C., Univ. of Calif., Berkeley, Calif. *Geol., Min. ?*

Leach, E. R., 217 Hillside Ave., Piedmont, Calif. *Scarbaeidae, Leucanidae* of the world. C. Ex. or buy.

Leach, Frank A., Diablo, Contra Costa Co., Calif. *Hymen.: esp. Wasps and Cynipidae.*

Leach, J. G., Asst. Prof. Plant Pathol., Univ. Farm, St. Paul, Minn. *Bot., Gen. Biol.*

Learn, Clarence D., B.S., State Agr. Coll., Fort Collins, Colo. *Bot.*

Learned, Dr. Elmer T., Fall River, Mass. *Lepid.*

Leathers, W. S., University of Miss. *Zool.*

LeBrun, Mrs. Maria O., Montclair, N. J. *Crypt.* C. Ex.

Ledgarwood, John H., Church and Liberty Sts., New York City. *Min. ? C.*

Lee, Frederic S., Ph.D., LL.D., Columbia Univ., New York, N. Y. *Physiol.*

Lee, Geo. F., M.D., Ph.D., Florence, S. Car. *Geol., Min., Biol., Chem., Petrol., Bot., Gen. Nat. Hist.*

Lee, Henry E., Box 495, Rapid City, S. Dak. *Birds and eggs, Mam., Lepid., L. F. W. & M. Shells, Min., Fossils, Arch.* C. Ex. and buy.

Lee, Willis T., Ph.D., U. S. Geol. Survey, Washington, D. C. *Geol., Geog., Geog. from airplanes.*

Leeson, Prof. C. C., Maryville, Mo. *Ent.*

Leeson, Joseph R., Elgin St., Newton Centre, Mass. *Bot.*

Leffmann, Dr. Henry, 1839 N. 17th St., Phila., Pa. *Chem., Bot.*

Lehmann, Dr. Theodore, 220 West Sola St., Santa Barbara, Calif. *Butterflies and moths.*

Lehnerts, Prof. Edw., Prof. of Geol., Hunter Coll., N. Y.

Leiby, Rowland W., Ph.D., Research Ent., N. Car. Agr. Expr. Station, Raleigh, N. C. *Econ. Ent., Insect Polyembryony.*

Leighton, Alex. H., 126 N. 12th St., Phila., Pa. N. A. *Birds and Mam.*

Leighton, Dr. M. W., State Geol. Survey, Urbana, Ill.

Leith, C. R., Prof. Geol., Univ. of Wis., Madison, Wis. *Geol.*

Leland, George H., Civil Engineer, 2 Hunter St., Providence, R. I. *Grasses, Sedges and Ferns.*

Le Mieux, Robt. M., Seymour, Wis. *Ent.*

Lemmer, Frederick, 688 Nye Ave., Irvington, N. J. *Ent.: Lepid.*

Lemon, Dr. John Herchel, New Albany, Ind. *Land Shells, Butterflies.*

Leng, Charles W., B.S., Sec. N. Y. Ent. Soc., Hon. Cur. Coleopt. Am. Mus. Nat. Hist. 33 Murray St., New York, N. Y. *Coleopt. C. Ex. esp. desired in Cicindelidae, Cicindellidae, and Cerambycidae.*

Lenington, Mrs. Julia, R. D. 2, Pomona, Calif. *Bot. C. Ex.*

Lentz, Dr. John D., Amherst, Mass. *Bacteriology.*

Lenzie, Frank, Grazing Examiner, U. S. F. S., Wenatchee, Wash. *Bot., Orn. C.*

Leonard, Arthur G., State Geologist and Prof. of Geology, Univ. of N. Dak., Grand Forks, N. Dak. *Geol., Paleo., Min. C. Ex.*

Leónard, Emery C., Maryland Ave. 1002 N. E., Washington, D. C. *Labiadae, Malvaceae, Cyperaceae.*

Leonard, Mortimer D., Ph.D., State Ent., Education Bldg., Albany, N. Y. *Econ. Ent., Diptera, esp. Leptidae. C. Ex.*

Leopold, Aldo, Forest Service, Albuquerque, N Mex. *Orn., Forestry, Game Conservation.*

Leopold, Nathan F., Jr., Ph.D., 4754 Greenwood Ave., Chicago, Ill. *Orn.*

Le Roy, Wm. J., 154 Booth Ave., Toronto, Ont., Can. *Reptiles and Amphibians.*

Leurmond, Norman Wallace, R.D., Cur. Knox Acad. Arts and Sciences, Thomaston, Me. *Ent., Con., Bot., Marine Zool. C. of 25,000 species of shells.*

Leuf, A. H. P., M.D., 2916 W. Girard Ave., Philadelphia, Pa. *Paleo., Chem., Physics, Elect., Meteo., Gen. Biol., Morphol., Emb., Anat. Anth. Vert., Osteol., Myol., Histol., Articulates.*

Leussler, R. A., 1137 So. 31st St., Omaha, Nebr. North American Lepid. esp. Rhopalocera. C. and Ex. No Amer. species for other No. Amer. species not in my Collection.

Leverett, Frank, U. S. Geol. Survey, Ann Arbor, Mich. *Strat. and Glacial Geol. and Underground waters.*

Levison, Wallace Gerold, 1435 Pacific St., Brooklyn, N. Y. Cor. Sec. Dept. Geol., Brooklyn, Inst. *Geol., Min., Mic. C. Will ex. for rare or extra fine specimens, esp. phosphorescent minerals.*

Levy, Daisy J., 403 West 115th St., New York City. *Mosses and Flowering Plants. C. Ex. mosses.*

Lewis, Alvan R. Jr., Belchertown, Mass. *Lepid. C. Ex. and sell.*

Lewis, Prof. Chas. D., State Normal School, Morehead, Ky.

Lewis, Prof. Francis J., Univ. of Alberta, Edmonton, Alta., Can. *Plant Physiol. and Ecol.*

Lewis, Frederick Thomas, A.M., M.D., 538 Chestnut St., Waban, Mass. *Vert. Histol., Emb.*

Lewis, Frederick Z., Boys' High School, Brooklyn, N. Y.
Mic. Make slides for teachers' use and general lab. work.

Lewis, H. F., Can. Nat. Parks, Ottawa, Ont., Can. *Orn., Man.*

Lewis, J. Volney, Prof. Geol. and Min., Dir. Geol. Museum, Rutgers College, State Univ. of N. J., New Brunswick, N. J. *Geol., Min., Petrol.*

Lewis, Myrtle H., 18 Rockwell Ave., Naugatuck, Conn. *Acrogenous plants. C. Col. of filices, hepaticæ, musci and lichens.*

Lewis, W. Scott, 3493 Eagle St., Los Angeles, Calif. ?

Libbey, Wm., A.M., Sc.D., Prof. Princeton Univ., Princeton, N. J. Dir. E. M. Museum of Geol. and Arch. *Phys. Geog., Palao., Meteo., Geog. Dist. C. Ex.*

Leibelsperger, W. H., 108 Washington St., Fleetwood, Pa. *Arch., Ent., Min. C.*

Lhenbaur, Philip Augustus, Asst. Prof. of Botany and Horticulture, Univ. of Nevada, Reno, Nev. ?

Libby, O. G., Prof. Am. Hist., Univ. of N. D., 409 So. 6th St., Grand Forks, N. D. *Preservation of native fauna and flora in state parks.*

Liljeblad, Emil, 1018 Roscoe St., Chicago, Ill. *Coleopt.; Mordellidae*, native and exotic wanted for special study.

Lillie, Ralph Stayner, Prof. of Biol., Clark Univ., Worcester, Mass. Inst. in charge of Course on General and Comp. Physiol., *Marine Biol. Lab.*, Woods Hole, Mass. *General Physiology.* ?

Linck, Henry A., Waterloo, Ind. *Orn., Ent., Zool., Mic. E. Ex. and buy.*

Lincoln, Fred K. C., Asst. Biol., Bureau of Biol. Survey, Dept. of Agric., Washington, D. C. *Orn.: Bird migration in particular.*

Lindegard, John, Hallock, Minn. *Tax. and Nat. Hist. C. Animal Teeth, Tusks and Claws for ex.*

Linder, David Hunt, 84 Perkins Hall, Cambridge, Mass. *Bot.*

Lindgren, Waldemar, Prof. Mass. Inst. of Tech., Cambridge, Mass. *Econ. Geol.*

Lindle, Wm. V., 2000 So. Garnet St., Phila., Pa. *Ent.* ? Offers N. A. Lepid. in ex. Also purchases specimens.

Lindsey, Dr. A. W., Ph.D., Denison Univ., Granville, Ohio. *Ent.: Hesperiidae of the world.*

Lindsey, Joseph B., Ph.D., B.Sc., Prof. of Agric. Chem., and Head of Dept., Mass. Agric. College. Vice-Dir. and Chem., Agric. Exper. Sta., Amherst, Mass.

Lindstrom, Prof. E. W., Dept. of Genetics, Iowa State College, Ames, Iowa.

Line, J. Edw., D.D.S., 50 Rowley St., Rochester, N. Y. *Dental Histol. and Oral Anat.*

Lineburg, Bruce, A.M., Johns Hopkins Univ., Baltimore, Md. *Apidae—The Honeybee.*

Linton, S. E., 1168 E. 54th St., Chicago, Ill. *Ent.* ?

Lipman, Chas. Bernard, Prof. Plant Nutrition and Dean of Graduate Division, Univ. of Calif., Berkeley, Calif.

Lippincott, Charles D., Swedesboro, N. J. *Bot., Orn., Ent. C. Local Herbarium.*

Lisk, Mr., Enfield, Mass. *Birds.*

List, Geo. M., Asst. State Ent., Colo. College, Fort Collins, Colo. *Econ. Ent.*

Liu, Chung Lo, Graduate Student at Cornell Univ., Ithaca, N. Y. c/o Tsing Hua Coll., Peking, China. *Econ. Ent. and Syst. Hymenopterology (Vespidae).* Buy literature.

Livingston, Burton E., Prof. of Plant Physiology and Dir. Lab. Plant Physiol. in Johns Hopkins Univ., Baltimore, Md. *Ecology and the relation of plants to soils and climate.*

Lloyd, C. G., 224 W. Court St., Cincinnati, Ohio. Founder and Owner, The Lloyd Library. *Mycology, Fungi.* C. Lloyd, Francis Ernest, Prof. Bot., McGill Univ., Montreal, Can. *Plant Physiology, Rubber plants.*

Lloyd, Hoyes, Supervisor of Migratory-Bird Protection, Canadian National Parks, 406 Queen St., Ottawa, Ont., Canada.

Lloyd, John Uri, Court and Plum Sts., Cincinnati, Ohio. *Chem.*

Lobdell, R. N., Teacher, A. & M. College, Miss. *Crawfish.* C. Ex. and buy.

Lockwood, Stewart, U. S. Bureau of Ent., Box 1094, Billings, Mont. *Orthoptera.*

Locy, Wm. A., Prof. of Zool., Northwestern Univ., 1745 Orrington Ave., Evanston, Ill. *Emb., History of Science.*

Loding Henry P., Mobile, Ala. *U. S. Coleoptera, World's Colydiidae, U. S. Herpetology.* C. Ex. in both.

Loew, Fred Aaron, A.M., Huntington Coll., Huntington, Ind. *Bot.*

Logier, Shelley, Artist-Naturalist, Royal Ontario Mus. of Zool., Toronto, Ont., Can. *Amphibians, Reptiles Fishes, Hymenoptera, especially ants.*

Lohrmann, Richard, 17 Alexis St., Rochester, N. Y. *Exotic Lepid. and Coleopt.* C. Ex. buy or sell.

Long, Joseph A., S.B., A.M., Ph.D., 1534 La Loma Ave., Berkeley, Calif. Assoc. Prof. of Embryology in Univ. of Calif. *Cytology, Embryology.*

Long, Bayard, Research Assoc., Dept. of Bot., Academy of

Nat. Sci., Philadelphia, Pa. *Taxonomy and dist. of flowering plants and ferns.*

Long, Bryson, Acad. of Natural Sciences, Philadelphia, Pa.

Long, Charles A. E., Matinicus, Me. *Plants of U. S.*

Long, Miss Emilie O., Assoc. Prof. of Biol., 171 East 83rd St., New York City. *Bot., Nature Study.*

Long, Frances L., Investigator Ecol. Research, Carnegie Inst. of Wash., Alpine Lab., Manitou, Colo. June to Oct., Desert Lab., Tucson, Ariz. Oct. to June. *Insect pollination, particularly Lepid. and Hymen. C. Ex. esp. Bombus, Megachile, Anthophora, Andrena, etc.*

Long, W. M., Ph.D., Government Tree Pathologist, Albuquerque, N. Mex. *Fungi injurious to trees.*

Longley, Fred E., Elkins, Merrimack Co., N. H. *Geol., Orn., Coins, Ent., Min. C.*

Longley, Wm. E., 115 So. Ridgeland Ave., Oak Park, Ill. *Ent., Lepid. C. Ex. ?*

Longyear, Prof. B. O., State Agric. Coll., Ft. Collins, Colo.

Loomis, Frederick B., Ph.D., Amherst Coll., Amherst, Mass. *Geol., Min.*

Lord, E. C. E., Ph.D., M.S., U. S. Dept. Agric., Washington, D. C. *Geol., Min., Lithol. C. Ex.*

Lord, Frederic P., M.D., 39 College St., Hanover, N. H. *Orn., Bot.*

Lorenz, Miss Annie, 96 Garden St., Hartford, Conn. *Bot. ?*

Lorge, Miss Mary, Pullman, Wash. *Bot.*

Lothrop, A. P., Ph.D., Prof. of Organic Chem., Medical Dept., Queens Coll., Kingston, Ont., Can.

Louderback, George D., Ph.D., Prof. of Geol., Univ. of California, Berkeley Calif. Residence: 2713 Derby St., Berkeley, Calif. *Inorg. Geol., Physiog., Min. C.*

Loughlin, Gerald Francis, U. S. Geol. Survey, Washington, D. C. *Petrog., Min., Econ., Geol.*

Loughridge, R. H., Ph.D., Prof. Emeritus, Agric. Chem., Univ. of California, Berkeley, Calif., *Geol., Min. ?*

Love, E. G., Ph.D., 101 West 85th St., New York City. *Ent. ?*

Love, T., 105 Grove St., Lynn, Mass. *Lepid.*

Lovell, Harvey B., Waldoboro, Me. *Biol.*

Lovell, John H., A.M., Waldoboro, Me. *Plant Ecol., Bees of No. Am. C. Ex.*

Loveridge, Earl W., Supervisor Carson National Forest, Taos, N. Mex.

Lovett, A. L., Ore. Agric. Expr. Sta., Corvallis, Ore. *Ent.: Syrphidae (Diptera).*

Low, Albert P., 154 McLaren St., Ottawa, Ont., Can. *Geol., Orn.*

Lowe, Chas. W., Univ. of Manitoba, Winnipeg, Man., Can. *F. W. Algæ and Plankton.*

Lowe, Mrs. Frank E., 24 Brattle St., Worcester, Mass. *Bryology.*

Lowe, Dr. G. N., Inst. in Zool., Univ. of Wis., Madison, Wis. *Fishes.* ?

Lower, George G., Herschel Road, Somerton, Phila., Pa. *Gen. Nat. Study.*

Lown, Clarence, Poughkeepsie, N. Y. *Rock Garden, Alpine Plants Collectors Rocky Mountain.* Please write.

Lowry, E. M., B.S., State Agric. Coll., Fort Collins, Colo. *Horticulture.*

Lowry, Quincy S., Asst. in Ent., Conn. Agric. Expr. Sta., New Haven, Conn. *Coleopt.* ?

Lucas, Frederick A., Dir. Am. Mus. Nat. Hist., 77th and Central Park, New York City. Museum Administration.

Luce, Geo. W., 1014 B St., Hayward, Calif. *Bird Skins.* C. Ex. and buy.

Lucian, Brother, 5 Ste. Croix St., Cartierville, near Montreal, P. Q., Can. *Bot.*

Ludwig, C. A., Clemson College, S. C. *Bot.*

Lueddemann, Miss Frieda, Los Gatos, Calif. *Birds.* ?

Lull, R. W., Ph.D., Sc.D., Prof. Palæo. Dir. Peabody Mus., Yale Univ., New Haven, Conn. *Vert. Palæo.* Ex. for the Museum.

Lumly, Ellsworth, Mukilteo, Wash. *Ent., Birds.*

Lunt, J. Richard, 213 Lowell St., Wakefield, Mass. *Bot.* ?

Luquer, L. McI., Assoc. Prof. Min., Columbia Univ., New York, N. Y. *Min.*

Lurvey, Sam A., South West Harbor, Maine, *Zool., Bot.* ?

Lute, Anna M., A.B., B.S., State Agric. Coll., Ft. Collins, Colo. *Bot.*

Lutz, Frank E., Ph.D., Amer. Mus. Nat. Hist., 77th St. and Central Park W., New York City. *Insects and Spiders.*

Lyman, Benj. Smith, 269 So. 4th St., Philadelphia, Pa. *Gcol., Topog., Minerals.* C. ?

Lynch, Joseph, 400 Washington St., Perth Amboy, N. J. *Orn.*

Lyon, Charles J., Coll. Inst. in Bot., Hanover, N. H. *Bot. (Flowers, Physiology).*

Lyon, Dr. Harold L., In charge Dept. of Bot. and Forestry, Expr. Sta., H. S. P. A., Box 411, Honolulu, T. H. *Plant Morph., Emb. and Phylogeny; Plant Pathol., Plant breeding, Tropical Bot., Forestry and Agric.*

Lyon, Marcus W., Jr., M.D., Ph.D., 48 V St. N. W., Washington, D. C. *Mam., Parasitology, Bacteriology, Pathol.* ?

Lyon, Victor W., Jeffersonville, Clark Co., Ind. *Invert. Palæo., Geol. (Deceased, books and collections for sale).*

Mass, Philip, Box 33, Fort Washington, Pa. *Min.*

Mabee, W. B., Asst. Ent., Dept. of Agric., Raleigh, N. C.

MacBean, George G., Assiniboia, Sask., Can. Wholesale and retail dealer and importer of Tropical Butterflies. Specializes in Morpho, Urania and brilliant Papilios, etc. Issues catalog and price lists.

Macbride, J. Francis, Asst. Cur., Dept. of Bot., Field Museum, Chicago, Ill. *Bot.*

MacCaughey, Vaughan, Assoc. Ed., Sierra Educ. News, San Francisco, Calif. *Sci. in public schools, field work.*

MacCoy, Clinton V., 1210 Beacon St., Brookline, Mass. *Orn., Gen. Nat. Hist.* C. Ex. and buy.

MacCurdy, Geo. Grant, Ph.D., Research Assoc. in Prehist. Arch., with Professorial rank, and of the Anthropological Collections, Yale Univ., 237 Church St., New Haven, Conn. *Prehistoric and Physical Anthropol.*

MacCurdy, Hansford M., Ph.D., Prof. of Biology, Alma Coll., Alma, Mich. (In charge of Francis A. Hood Museum) *Musical Collections.* C. of all groups. Museum exchange local materials.

MacCurry, Dir. of Bot., Dominion Expr. Farm, Ottawa, Ont., Can. *Bot.*

MacDowell, E. Carleton, Cold Spring Harbor, L. I., N. Y. *Zool., Genetics.*

MacFadden, Mrs. J. P., New Devon, B. C., Can. *Wild flowers and mosses, Wild flower photography.*

MacFarland, F. M., Ph.D., 2 Cabrillo Ave., Stanford Univ., Calif. Prof. Histol., Leland Stanford Univ., Calif. *Cytol., Histol., Opisthobranch Mollusca.* C. Ex. Calif. Opisthobranch Mollusca for Opisthobranch from other regions.

Macfarlane, John J., A.M., Librarian and Statistician, Philadelphia Commercial Museum, 34th St. below Spruce St., Philadelphia, Pa.

Macfarlane, Dr. John M., Univ. of Pa., Philadelphia, Pa. *Bot.*

MacGillivray, Alex D., Prof. Syst. Ent., Univ. of Ill., Urbana, Ill. *Insect Morphology and Taxonomy and Tenthredinidae.*

Macgillivray, M., D.D., 181 University Ave., Kingston, Can. *Story of domestic animals in Geol. and historic period. and their relation to human advancement. Migration, Hibernation, etc.*

Mack, Margaret E., Assoc. Prof. Biol., Univ. of Nevada, Reno, Nev. *Biol.*

Mackay, Dr. A. H., 61 Queen St., Dartmouth, N. S. *Diatomaceæ.*

Mackaye, James M., 160 Elm St., North Cambridge, Mass. *Bird Banding, Bird Sanctuaries.*

Mackenzie, Dr. Marion, B.S., Ph.D., Univ. of Pa., Prof. Biol., Head of the Univ. of Pa. Home: 4816 Florence Ave., Philadelphia, Pa.

Mackie, Donald, Dept. of Health, Edmonton, Alta., Can. *Lepid.*

MacInnes, D. A., Mass. Inst. Tech., Cambridge, Mass.

Mackintosh, R. B., 131 High St., Danvers, Mass. *Bot.*

MacLaughlin, T. J., Dept. Public Works, Ottawa, Can. *Neuropt. C.?*

Maclay, Mark W., 20 Exchange Pl., New York City. *Orn.*

MacLeod, Malcolm, Taft School, Watertown, Conn. *Ent.?*

Macloskie, George, D.Sc., LL.D., Prof. Emeritus, Princeton Univ., Princeton, N. J. *Biol. C.?*

Macnamara, Charles, Arnprior, Ont., Can. *Nature Photog. Ent.: Collembola.*

Macoun, William Terrill, Dominion Horticulturist, Central Experimental Farm, Ottawa, Ont., Can. *Plant Breeding and General Horticulture, Systematic Bot.*

MacWilliams, J. D., 33 Reynolds St., Kingston, Pa. *Orn.*

Maddren, Alfred Geddes, Assoc. Geol., U. S. Geol. Survey, Washington, D. C. ?

Madison, Harold L., Cur. of Education, Cleveland Museum of Nat. Hist., Cleveland, Ohio.

Magath, Thomas Byrd, M.S., Ph.D., Inst. Anat., Med. Coll., Univ. of Ill., Chicago, Ill. *Parasitology, Anat. C.?*

Magee, Michael J., 603 South St., Sault Ste. Marie, Mich. *Orn.*

Maguire, Don M. E., Box 517, 549 25th St., Ogden, Utah. *Minerals, Geol., Numismatics, Antiques. C. Ex. buy and sell minerals, arms, coins, etc. Pleased to correspond on above subjects.*

Maheux, Georges, Ministere de l'Agriculture, Quebec, Can. Prov. Ent., Econ. Ent., *Insects injurious to veg. fruit and forest trees. C. will ex. coleopt. of various families for Buprestidae, Cerambycidae.*

Mailoux, C. O., E.E., M.S., D.Sc., Consulting Engineer, 322 West 82nd St., New York, N. Y. *Phys., Elect., Philol.*

Major, T. Grant, Tobacco Pathologist, Tobacco Div., Central Expr. Farm, Ottawa, Ont., Can. *Tobacco Diseases.*

Malloch, J. B., State Entomologist, Urbana, Ill. ?

Malloch, J. R., U. S. Biol. Surv., Washington, D. C. *Ent.: Diptera.*

Malone, J. G., 108 East 17th St., Portland, Ore. *Marine and Land Crustacia.*

Malte, M. Oscar, Ph.D., Chief Botanist, Nat. Herbarium, Victoria Mem. Mus., Ottawa, Ont., Can. *Syst. Bot., particularly Gramineae. C. Ex.*

Manchester, James G., 34 Nassau St., New York City. *Min.*

C. Ex.

Manley, J. A., 132 Hamilton St., New Brunswick, N. J.
Geol., Min. C. of Minerals, Ores and prehistoric implements and pottery. Special steels and other metals and alloys. C. Ex.

Mann, Albert, Carnegie Institution, Office and Lab., U. S. Nat. Museum, Washington, D. C. *Diatoms.*

Mann, Margaret C., Asst. in Genetics, Room 314, Hilgard Hall, Univ. of Calif., Berkeley, Calif. *Zool., Bot., esp. Cytology and Heredity.*

Mann, Wm. M., Bussey Inst., Harvard Univ., Forest Hills, Mass. *Ants and their Guests and Parasites.* C. Ex. ?

Mannhardt, L. Alfred, Asst. Prof. Biol., in charge Biol. Work in Washington Square College of N. Y. Univ., New York University, Washington Square, New York City. *Gen. Biol., Anat. of Vert., Palao.*

Mansfelde, Alex. S. V., M.D., "Quality Hill," Ashland, Saunders Co., Nebr. *Emb., Anat., Histol., Protozoa.* ?

Mansfield, George Rogers, Geologist, U. S. Geol. Survey, Washington, D. C.

Marchand, Werner, Princeton, N. J. *Ent.* ?

Marcy, Henry O., A.M., LL.D., 180 Commonwealth Ave., Boston, Mass. *Emb. of Vert., Osteol., Gen. Biol., Bacteriol.*

Mant, Chas. F., 57 Halelona Park, Manoa, Honolulu, T. H. *Con.* C. Ex.

Manter, Jerould A., Inst. of Ent., Conn. Agric. School, Storrs, Conn.

Mantle, J. G. C., Consulting Engineer, 111 Ames Ave., Leonia, N. J. *Nat. Sci. in Gen., Geol., Conch., Min.* C. Ex. and buy.

Mapel, H. B., Columbus Grove, Ohio. *Arch.*

Marble, Richard M., Woodstock, Vt. *Orn.*

Marburger, Clifford, Denver, Lancaster Co., Pa. *Orn.*

Marie-Victorin, Brother, Head of the Dept. of Bot., Université de Montréal, 185 Rue St. Denis, Montreal, Can.

Mares, Adolph, 2524 So. Homan Ave., Chicago, Ill. *Cicindelidae.* ?

Marine Biological Laboratory, Supply Dept., Geo. M. Gray, Curator, Woods Hole, Mass. *Biol. supplies bought and sold.*

Mark, Clara G., 270 So. State St., Westerville, Ohio. *Geol., Palao., Min., Bot., esp. ferns and mosses.*

Mark, Edward L., Hersey Prof. Anat. Emer., Harvard Univ., and Dir. Bermuda Biol. Station for Research, 109 Irving St., Cambridge, Mass. *Zool., Anat., Emb., Cytology.*

Marks, E. Sidney, 655 Kearney Ave., Arlington, N. J. *Con. Ent.* Coll. of Lepid. Buy or ex. shells.

Marlatt, C. L., M.S., D.Sc., Entomologist and Assoc. Chief of Bureau, and Chairman of Federal Horticultural Board, U. S. Dept. of Agric., Washington, D. C. *Coccidae, Econ. Ent.*

Marloff, Fred, 118 Oak Road, Mt. Oliver Branch, Pittsburgh, Pa. *Butterflies and moths.* C. Ex. and buy.

Marsh, Charles Dwight, Ph.D., U. S. Dept. of Agric., Washington, D. C. *Copepoda.* C. Entomostraca. Ex.

Marsh, Geo. E., Research Engineer, 5207 Dorchester Ave., Chicago, Ill. *Min., Petrography.*

Marsh, Chas. A., 391 W. Main St., Battle Creek, Mich. *Orn., Ichth., Bot.*

Marshall, Prof. Chas. E., Amherst, Mass. *Mic.*

Marshall, Emeritus Prof. D. H., M.A., F.R.S.E., Elmmtree House, Kingston, Ont., Can. *Physics.*

Marshall, Mr. F. H., 2516 No. 61st St., Omaha, Nebr. *Lepid. Moths.* C. Ex. ?

Marshall, Mazimillion C., 2107-11 Beverly Road, Brooklyn, N. Y. *Ent.*

Marshall, Ruth, Ph.D., Rockford Coll., Rockford, Ill. *Zool., F. W. Mites, Bot., Ferns.*

Marshall, W. B., Div. of Invertebrates, Smithsonian, Washington, D. C. *Invert.* ?

Marshall, Wm. Stanley, Ph.D., Univ. of Wis., Madison, Wis. *Ent.*

Marston, J. B., 415 Locust St., Wilson, Pa., *Indian relics.* C. Buy.

Martens, Jas. Wm., Shrub Oak, Westchester Co., N. Y. *Bot.* C. Ex.

Martin, Chas. J., 38 Essex St., Brooklyn, N. Y. *Ent., Lepid., Coleopt.* C. Ex. ?

Martin, Ernest Gale, Prof. of Physiol., Box 528, Stanford Univ., Calif. *Ool., Phyllopod Crust.* C. Ex.

Martin, E. Linton, U. S. N. Radio, Marion, Mass. *Lepid.* ?

Martin, D. S., Charleston Museum, Charleston, S. C. *Min. C.*

Martin, Handel T., Asst. Cur., Dept. of Palæontology, State Univ., Lawrence, Kans. *Palæo.*

Martin, James C., 26 Broadway, New York City. *Geol.*

Martin, J. O., 2409 Telegraph Ave., Berkeley, Calif. *Ent.* ?

Martin, William J., M.D., Ph.D., LL.D., President Davidson College, Davidson, N. C. *Chem.*

Martin, Wm. M., M.D., Security Bank Bldg., Wellington, Kans. *Orn., Ool.* Desire to ex. specimens.

Marts, Ralph O., R. D. 2, Ottawa, Kans. *Ent.* Ex. local *Cicindellidae.*

Marvin, Chas. F., Mech. Eng., Chief, U. S. Weather Bureau, Washington, D. C.

Marvin, E. H., Baldwinsville, N. Y. *Orn., Bot.*

Marzanette, Dr., Plant B., Brickel Ave., Miami, Fla. *Ent.*
Mason, A. C., Eagle Pass, Texas. *Ent.: Alphids.*
Mason, Charles S., 4006 Fifth St. N. W., Washington, D. C.
Econ., Geol. Building stones and structural material.
Mason, Miss Flora L., 289 W. Britannia St., Taunton,
Mass. *Birds, Flowers, Ferns.*
Mason, Frank R., 5535 Pulaski Ave., Germantown, Phila.,
Pa. *Coleopt., Cerambycidae, Cicindellidae, Carabidae,*
Buprestidae, Rhyncaphara of the World. C. Ex.
Mason, J. A., Am. Mus. Nat. Hist., New York City. *Anth.*
Mason, P. W., Instructor in Ent., Purdue Univ., Lafayette,
Ind. *Orthoptera.* C.
Mason, Stephen G., Geol. Surv., Washington, D. C. *Phæn.*
Plants and Ferns. C.
Mateer, Horace N., Prof. Biol., Coll. of Wooster, Ohio. *Mic.,*
Biol., Zool. C.
Mathew, Kirtley F., Prof. Geol., Dennison Univ., Granville,
Ohio. *Geol., Geog.* (After Sept. 1, 1924 Harvard Univ.,
Cambridge, Mass.)
Matheson, Robert, Ph.D., Dept. Ent., Cornell Univ., Ithaca,
N. Y. *Ixodidae, Anoplura, Culicidae, Siphonoptera,*
Taxonomy and Biol. of blood sucking insects in general.
McCain, F. E., 16 Poplar Park, Pleasant Ridge, Mich. *Bees,*
and Wasps. C.
McCallie, Samuel Washington, State Geologist, Atlanta, Ga.
Econ. Geol.
McCarty, E. C., LL.B., State Agric. College, Ft. Collins,
Colo. *Bot.*
McCaughey, Wm. J., Ohio State Univ., Columbus, Ohio.
Cryst., Min., Precious Stones. C. Ex. or buy minerals,
crystals or gem stones.
McClelland, J. H., Arnegard, N. D. *Birds.*
McClendon, J. F., Ph.D., Univ. of Minn., Medical Sch.,
Minneapolis, Minn. *Physiol., Chem.*
McClung, Clarence Erwin, Prof. of Zool., Univ. of Pa.,
Philadelphia, Pa. *Cytology of Insects.*
McColloch, James W., Kansas Expr. Sta., Manhattan, Kans.
Ent.
McConnell, R. G., B.A., Riders Club, Ottawa, Ont., Can.
Geol., Min. Bibliog.
McCourt, Walter Edward, Prof. of Geology, Washington
Univ., St. Louis, Mo.
McCowen, Dan, Box 40, Banff, Alta., Can. *Wild life of the*
Canadian Rockies.
McCracken, Dr. Isabel, Stanford University, Calif. *Ent.*
McCubbin, Walter A., Plant Pathologist, 102 Hamilton St.,
Harrisburg, Pa. *Plant Diseases.* C. Ex.
McDaniel, Eugenia, East Lansing, Mich. *Orph., Coacida.*

C. Ex.

McDermott, F. A., Box 82, Claymont, Del. *Bioluminescence, Mampyridæ, etc.*

McDonnell, Henry B., M.S., M.D., Chemist for Animal Pathol. Investigations, Md. Expr. Sta. *Chem. Pathol. Gas Therapy.*

McDougall, W. B., Univ. of Ill., Urbana, Ill. *Bot., Ecol., Mushrooms.*

McDunnough, J. H., Ph.D., Entomological Branch, Ottawa, Ont., Can. *Ent.*

McElrod, N. J., Univ. of Mont., Missoula, Mont. *Ent.*

McElvare, Rowland R., 231 Decatur St., Brooklyn, N. Y. *Noctuidæ. C. ?*

McEthinney, Mark G., D.M.D., 252 Lisgro St., Ottawa, Ont., Can. *Geol.*

McEwen, Alfred, Tarrytown, N. Y. *Mic., Min., Stamps, Coins. Rare and Curious Microscopic Slides.*

McEwen, Robert S., Ph.D., Asst. Prof. of Zoology, Oberlin Coll., Oberlin, Ohio.

McFarland, Frank T., Prof. and Head Dept. Bot., Univ. of Ky., Lexington, Ky. *Mycol., Plant Pathol., Ferns, Cloniceps, Muscoss. C. Ex.*

McGee, Emma R., R. D. 12, Farley, Iowa. *Bot. Ex.*

McGill, J. T., Ph.D., Vanderbilt Univ., Nashville, Tenn. *Chem.*

McGinty, R. A., N.S., State Agric. Coll., Ft. Collins, Colo. *Hort.*

McGrath, Miss J. G., Hunter College, New York City. *Zool.*

McGraw, Harvey A., 1805 15th Ave., Altoona, Pa. *Bot., Gen. Nat. Hist.*

McGregory, J. F., Prof. Chem., Colgate Univ., Hamilton, N. Y. *Org. and Inorg. Chem.*

Mathews, Clarence W., Prof. of Hort., Univ. of Ky., 660 So. Limestone St., Lexington, Ky. *Hort.*

Mathews, F. Schuyler, 17 Frost St., Cambridge, Mass. *Bot., Author and Artist.*

Mathews, Warren A., 56 Longdale St., Rochester, N. Y. *Bot., C.*

Mathey, Mrs. Cecilia G., 3444 Russell Ave., St. Louis, Mo. *Bot., Geol., Arch. Col. of Arch. Relics of the Am. Mound Builders and European Lake Builders.*

Matson, Geo. Charlton, B.S., U. S. Geol. Survey, Washington, D. C. *Geol. of Oil and Gas. ?*

Matthew, George F., LL.D., D.Sc., F.R.S.C., Nat. Hist. Soc., 72 Union St., St. John, N. B., Can. *Cambrian Palæo., Palæobot. ?*

Matthew, Dr. W. D., Curator, Amer. Mus. of Nat. Hist., New York, N. Y. *Fossil Vertebrates.*

Mattick, Irving, 3529 Halliday Ave., St. Louis, Mo. *Ent.*

Matz, Miss Minnie, R. D. 2, San Benito, Tex. *Butterflies.*
C. Sells. ?

Maughan, John, Biologist, Ont. Gov. Dir. Biology, Canadian National Exhibition, 26 Tyndale Ave., Parkdale, Toronto, Ont., Can. *Orn., Mam.* C. Ex. buy and sell.

Mavor, Prof. James W., Ph.D., Zool. Dept., Union Univ., Schenectady, N. Y. *Morph., Protozoa Parasites, Oceanography, Genetics.*

Maxon, Wm. R., U. S. Nat. Mus., Washington, D. C. *Pteridophyta.*

May, H. G., State College, Kingston, R. I. *Gardiaceae.* C.

May, Dr. John B., Cohasset, Mass. (Summer, Ashland, N. H.) *Orn., Bot.*

Mayer, Henry 2nd, 262 Clifton Place, Brooklyn, N. Y. *Ent.* ?

Mayer, W. A., Taxidermist, Naturalist and Collector, 2717 Live Oak St., Dallas, Texas. *Animals and Birds.* C. Ex. and buy.

Mayfield, Dr. Geo. R., Pres. Tenn. Orn. Soc., Vanderbilt Univ., Nashville, Tenn. *Orn.*

Mayfield, T. D., 50 Columbia St., Newark, N. J. *Ent.: Catocalæ.* C. Ex. buy or sell.

Maynard, C. J., 447 Crafts St., West Newton, Mass. *Orn., Ent.* etc.

Mayone, Geo. C., Plant Pathologist, U. S. D. A., Agric. College, N. D.

Mazyck, William G., 56 Montague St., or Equitable Building, Broad and Church Sts., Charleston, S. C. *Con.* C. Ex. duplicates. Prefers Land and Marine Species.

McAllister, Enid B., 27 East 124th St., New York City. *Lepid.* ?

McArthur, James Marshall, Supervisor of Nature Study and School Gardening, 1532 Caliope St., New Orleans, La. *Insects, Birds, Gardening.*

McArthur, John, Prof. Nature Study, New Orleans Normal School, Calliope St., New Orleans, La.

McAtee, W. L., Asst. in Charge Food Habits Research, U. S. Biol. Survey, Washington, D. C. *Food habits of vertebrates; Taxonomy of Hemiptera; Local Nat. Hist.; Vernacular names of Organisms; Folk lore of Birds.*

McBride, O. C., Inst. in Ent. and Econ. Zool., Univ. Farm, St. Paul, Minn. *Ent., Zool.* C. Ex. insects.

McBurney, J. W., 16009 Caledonia Ave., East Cleveland, Ohio. *Exotic and local Lepid.* C. Ex. or buy.

McIndoo, Dr. Norman E., Bureau of Ent., Washington, D. C. *Ent.*

McInnis, Wm., B.A., LL.D., F.R.S.C., F.G.S.A. Dir. Victoria Mus., Ottawa, Can. *Geol., Nat. Hist., Anth.*

culture.

McIntosh, Allen, Asst. Prof. of Zool. and Ent., Box 244,
A. & M. College, Miss. *Dipt.*, *Dolichopodidae*. C. Ex.

McIntosh, Wm., The Museum, St. John, N. B., Can. *Gen.
Zool.*

McKay, Joseph, 259 Eighth St., Troy, N. Y. *Crypt.*, *Mic..
Dipt.* C.

McKay, Wiegand Karl, Prof. of Bot., Cornell Univ., Ithaca,
N. Y. *Taxonomy of Vascular Plants*.

McKee, J. C., A. & M. College, Miss. *Bot.*

McKenney, Prof. R. E. B., Ph.D., Bureau of Plant Industry,
Dept. of Agric., Washington, D. C. *Plant Physiology
and Pathology*.

McKeogh, Geo. T., M.D., Blenheim, Ont., Can. *Birds and
Flowers*.

McKinney, K. B., U. S. Ent. Laboratory, Clarksville, Tenn.
Ent.

McKinstry, Hugh E., West Chester, Pa. *Min.*, *Geol.* C.

McKnight, Edwin T., 1015 Central St., Olympia, Wash.
Orn., *Moll.*

McLain, R. B., Cor. 12th and Market Sts., Wheeling, W. Va.
Orn., *Mam.*, *Herpetol.*, *Comp. Anat.*, *Emb.* C.

McLaine, L. S., Entomological Branch, Dept. of Agric.,
Ottawa, Ont., Can. *Ent.*, *Foreign Econ. Pests*.

McLearn, F. H., Geol. Survey, Ottawa, Ont., Can. *Paleo.*

McMullan, Geo. D., Pæd., 15 South St., Hamilton, Ont.,
Can. Biological Nature Study.

McMurphy, J. I. W., Asst. Prof. Botany, Mycology and
Plant Pathology, Stanford Univ., Calif.

McMurray, Nell, 415 W. Locust St., Clearfield, Pa. C. *Lepid.,
Hymenopt.*, *Bot.* Desire to sell Lepid., also ovæ, larvæ
and pupæ of this vicinity.

McNair, F. W., Houghton, Mich. *Myxomycetes*.

McNair, W. Harvey, Ph.D., 415 Brunswick Ave., Toronto,
Ont., Can. *Min.*, *Geol.* C.

McNeil, George M., Mus. Preparator, 195 Lincoln St., Win-
throp, Mass. *Birds*, *Nature Photog.* C. Ex.

McWilliam, Geo. D., M.A., Science Master, Normal Sch.,
Hamilton, Ont., Can. *Teaching of Nature Study*.

Mead, A. D., Prof. Biol., Brown Univ., Providence, R. I.
Zool., *Morph.*, *Emb.*, *Hist. Worms*.

Mead, Harold Tupper, B.A., M.S., Prof. Zool., Tulane Univ.,
New Orleans, La. *Zool.*, *Anat.*

Mead, T. L., C.E., Oviedo, Fla. *Bot.*; specialty *Hybrid
Orchids* and *Hybrid Hippeastrums*. C. Ex.

Medsger, Oliver P., B.S., 9 Columbia Ave., Arlington, N. J.
Bot., *Zool.* C. Ex. seeds of native flora.

Meeker, Grace R., 709 So. Mulberry St., Ottawa, Kans.
Mosses. Would be glad to collect local mosses for ex.

Meeske, Dr. Herman, 1719 Cornelia St., Brooklyn, N. Y.

Lepid., *Coleopt.* C. Ex. ?
Meier, Henry F. A., Prof. Bot., Syracuse Univ., Syracuse, N. Y. Bot.
Meigs, Samuel G., 222 So. Ninth St., Lafayette, Ind. *Orn.*, *Man.*, *Bot.*: *Trees*, *Geol.*
Meiners, Edwin P., 6600 Delmar Blvd., St. Louis, Mo. Ent.: *Lepid.*, *Myriopoda*. Ex. Correspondence desired.
Meisel, A. A., 1300 Montgomery St., San Francisco, Calif. Ent.
Meissner, Miss Amelia, 3640 No. Market St., St. Louis, Mo. Cur. St. L. Educational Mus.
Melandier, Prof. A. L., State College, Pullman, Wash. *Empididae*. C. of Diptera.
Melandier, Ivor, 702 Campus Ave., Pullman, Wash. *Birds*.
Mellen, Ida M., New York Aquarium, New York City. *Biol.*, *Philol.*, *Heredity*, *Ichth.*
Mellert, S. O., 120 W. Windsor St., Reading, Pa. Ent.
Melzer, James P., Milford, N. H. *Orn.*, *Tax.* C.
Memminger, E. R. Flat Rock, N. C. Bot. C.
Mendenhall, W. C., U. S. Geol. Survey, Washington, D. C.
Mengel, Levi W., Dir. Reading Pub. Mus. Reading, Pa. *Diurnal Lepid.* C. Ex. Desires to ex. diurnal Lepid. of the world. Erycinidæ especially desired. Will purchase desiderata. Will ex. Lepid. for first class Am. bird skins for Zool. Dept. of the Museum.
Menninger, C. F., B.S., M.D., Memb. Kansas Acad. Sci., Am. Assoc. Adv. Sci., A.M.A., Am. Congress Inst. Med., Topeka, Kans. Route 4. *Int. Med.*, *Diabetes*, *Peony Culture*. Ex. peonies, gladioli, dahlias.
Menninger, Karl Augustus, A.B., M.S., M.D., 1626 Plass Neuropsychiatry, Mental Hygiene, Criminology, Psychoanalysis.
Mercer, A. Clifford, M.D., F.R.M.S., 324 Montgomery St., Syracuse Univ., N. Y. *Photog.*, *Photomicrog.*
Mercer, William Farifield, Ph.D., Prof. Biol., Athens, Ohio. C. Insects.
Meredith, Hugh B., M.D., 208 N. 34th St., Philadelphia, Pa. Bot. C. Ex.
Merkel, Hermann W., Chief Forester, N. Y. Zoological Soc., New York City. *No. Amer. Trees, their Diseases and Pests*. *North American Shrubs and Wild Flowers*.
Merriam, Dr. C. Hart, 1919 16th St., Washington, D. C. Mam., *Indians of Calif. and Nevada*.
Merrill, D. E., Rogers, Ark., Coleopt., Econ. Ent., Orn. C. Ex.
Merrill, Elmer Drew, M.S., Bureau of Science, Manila, P. I. Dir. Bureau of Science. Has direct charge of the Philippine Government collections, approximately 250,000 mounted sheets and will exchange Philippine

botanical material for similar material from any other tropical country.

Merrill, Mrs. Ethelwyn F., Northwood Narrows, N. H. *Mosses, Hepaticæ, Ferns.* C. Ex.

Merrill, E. W., Sitka, Alaska. *Orn.*

Merrill, G. B., Assoc. Ent., State Plant Board, Gainesville, Fla. *Coccidae, Predations and parasites thereof.* Ex.

Merrill, G. K., Rockland, Me. *Lichens.* C. Particularly desire to exchange with foreign collectors.

Merrill, Geo. P., Ph.D., D.S.C., Head Cur. Dept. Geology, U. S. National Museum, Washington, D. C.

Merrill, J. H., State Agric. Coll., Manhattan, Kans. *Bees, Fruit Insects.*

Merrill, Lucius H., Prof. of Biol. Chem., Univ. of Maine, Orono, Me. *Chem., Bot. C. Ferns and Seeds.* Ex.

Merriman, Prof. Mabel, Hunter Coll., Park Ave. & 68th St., New York City. *Cytol., Algae.*

Merriman, Robert Owen, 96 West Second St., Hamilton, Ont., Can. *Birds, Conservation of Wild Birds.*

Mershon, Wm. B., Saginaw, Mich. *Game Birds, Mam., Fishes.*

Mertie, J. B., Jr., U. S. Geol. Survey, Washington, D. C.

Metcalf, Clell Lee, Head Dept. of Ent., Univ. of Ill., Urbana, Ill. *Syrphidae, Animal parasites.* C. Ex.

Metcalf, F. H., Holyoke, Mass. *Orn., Geol.*

Metcalf, Haven, Forest Pathologist, Bureau of Plant Industry, Washington, D. C. *Diseases of forests and ornamental trees. Green Algae.*

Metcalf, Maynard M., The Orchard Laboratory, Oberlin, Ohio. *Protozoa and Tunicata.*

Metcalf, Z. P., Prof. Zool., State College, Raleigh, N. C. *Ent.: Homoptera.* C. Ex. and buy.

Metz, Charles W., Cold Spring Harbor, N. Y.

Meyer, Arthur William, Stanford University, Calif. *Anat.*

Meyer, Chas. H., Ph.D., Chemist, 1320 Myrtle Ave., Brooklyn, N. Y. *Books on Eth. and Nat. Hist.* Have in dup. 2000 scientific government pub. to ex.

Michelson, Dr. Truman, Ethnologist, Bureau Am. Ethnol., Prof. Ethnol., Geo. Washington Univ., Washington, D. C.

Mickle, Clarence E., Extension Entomologist, Dir. of Ent., Univ. Farm, St. Paul, Minn. *Hymenoptera, esp. Mutilidae.*

Middlebrode, Robert, A.B., M.D., State College, N. M. *Ent. C. Ex.*

Middleton, R. J., Jeffersonville, Pa. *Bird banding, bird migrations.*

Middleton, Wm., East Falls Church, Va. *Insects affecting shade trees, Insect behavior, Hymenopterous larvæ.*

Mignault, Rev. Jos. B., P.P., 41 Lorne Ave., St. Lambert,
Co. of Chambley, P. Q., Can. *Gen. Coll., Ent.* C. Ex.

Milbank, John, Chillicothe, Mo. *Min., Arch.* C. Ex.

Milde, Mrs. Robert, Lewiston, Minn. *Lepid., Coleopt.* C.
Lepid. Ex. buy.

Millar, John A., 17 East Highland Ave., Melrose High-
lands, Mass. *Ent.*

Miller, A. E., Asst. Ent., Ohio Agric. Expr. Sta., Wooster,
Ohio. *Ent.*

Miller, Agnes Vinton, Science Teacher, 721 Highland Ave.,
Newark, N. J. *Min., Bot., Field Work.*

Miller, Alfred S., A.M., E.M., Ph.D., Prof. of Mining,
Metall. and Geol., Univ. of Idaho, Moscow, Ida. *Metall.,
Min.*

Miller, Arthur M., Prof. Geol., Univ. of Ky., Lexington, Ky.
Palæo., Geol., Min., Lithol. C. Ex.

Miller, Benj. LeRoy, Prof. of Geol., Lehigh Univ., Bethle-
hem, Pa. *Geol. esp. Econ.* C. Ex. and buy.

Miller, D. C., D.Sc., Case Sch. of Applied Science, Cleve-
land, Ohio. *Mic., Ast., Photog.*

Miller, Fred A., care of Eli Lilly and Co., Indianapolis,
Ind. *Pharmaceutical Bot., Breeding Medicinal Plants.*

Miller, Geo. Edwin, Prof. of Biol., 1025—7th St., North
Fargo, N. D. *Biol.*

Miller, Gerrit S., Jr., Curator, Division of Mammals, U. S.
National Museum, Washington, D. C. *Mammals.*

Miller, John A. M.Sc., A.M., Ph.D., F.C.S., F.R.M.S., Chem-
ist, 44 and 45 Lewis Block, Buffalo, N. Y. *Chem., Mic.*
C.

Miller, L. K., 2708 Euclid Ave., Cleveland, Ohio. *Nat. Sci.*

Miller, Miss Mary M., 4928 Hayes Ave., Los Angeles, Calif.
Orn.

Miller, Milo H., Mt. Oliver Sta., Pittsburgh, Pa. *Orn.*

Miller, Paul C., Curator, Walker Museum, Univ. of Chicago,
Chicago, Ill.

Miller, Thomas I., 721 Highland Ave., Newark, N. J. *Min.,
Mic.*

Miller, T. L., Fairwater, Wis. *Arch., Bot., Ent.* C. Ex.

Miller, W., 579 Sheldon Ave., Grand Rapids, Mich. *Stamps.
F. W. and Land Shells.* Ex. and buy.

Miller, W. DeWitt, Am. Mus. Nat. Hist., 77th & Central
Park, New York City. *Syst. Orn., Reptiles, Birds,
Mammals and Plants of N. J.*

Miller, William J., Prof. Geol., Hamilton College, Clinton,
N. Y. *Geol. ?*

Milliken, Jennison Harry, Assoc. Prof. of Bot., Univ. of
Tenn., Tenn. *Gen. Bot., esp. Plant Physiol. and Pathol.
and Bacteriology.*

Mills, Miss Ruby R., 36 Robinson St., Hamilton, Ont., Can.

Orn.

Mills R. Walter, M.D., 6682 Oakland Ave., St. Louis, Mo.
Orn.

Mills, Wier R., Pierson, Iowa. *Orn., Ent.* Will buy Lepid.
Mills, Dr. William C., Dir. State Mus., 181 East 15th Ave.,
Columbus, Ohio. *Arch., Gen. Nat. Hist.*

Miner, Roy, Ph.D., Cur. of Lower Invertebrates, Am. Mus.
of Nat. Hist., 77th & Central Park, New York City.
*Myriapoda, Animal Ecol., esp. of Marine Invert., Comp.
Mycology.* C.

Minot, George Richards, M.D., 188 Marlborough St., Bos-
ton, Mass. *Lepid., esp. Phopalocera.* C. Ex.
Minott, Charles W., 68 Albion St., Melrose Highlands, Mass.
Econ. Ent.

Mitchell, James L., 216 Indiana Trust Bldg., Indianapolis,
Ind. *Lepid.*

Mitchell, John E. Porter, 321 East 13th St., New Albany,
Ind. *Curios and Antiques.*

Mitchell, T. B., 123 New Bern Ave., Raleigh, N. C. *Apoi-
da, esp. Megachilidae.* C. Ex.

Moenkhaus, William J., Ph.D., Prof. Physiol., Bloomington,
Ind. *Gen. Physiology.*

Moffatt, Wm. S., M.D., 105 S. La Salle St., Chicago, Ill.
Bot., Fungi, Arch. C.

Moir, William Whitmore Goodale, Papaikon, H. T. *Plant
Breeding.* Esp. interested in pure line selection in
sugar cane. Willing to ex. information and data with
other investigations in other crops.

Monks, Sarah P. 223—15th St., San Pedro, Calif. *Marine
life.* C. Ex.

Monroe, Miss Ella, Washington, Ark. *Lepid.* C. Ex.

Montgomery, B. Elwood, Poseyville, Ind. *Coleopt., Lepid.*
C. Ex.

Montgomery, Clarence E., 501 Union St., Portsmouth, N. H.
Ent., Bot., esp. fungi, Mic. Buy Lepid. and Mic. wants.

Moody, Robert O., B.S., M.D., Med. Dept., Univ. of Calif.,
Berkeley, Calif. *Mic., Anat., Histol.* C.

Moore, C. L., M.A., F.R.S.C., Prof. Biol., Dalhousie Univ.,
Halifax, N. S. *Biol.* ?

Moore, Elwood S., Prof. Geol. and Min., State College, Pa.
Minerals and Fossils.

Moore, G. A., 359 Qurbes Ave., Outremont, P. Q., Can.
Ent.

Moore, Geo. T., Dir. Missouri Bot. Garden, Engelmann
Prof. Botany, Wash. Univ., St. Louis, Mo.

Moore, Henry Frank, Linville Falls, N. Y. *Invert. Zool.*

Moore, J. Percy, Prof. of Zool., Univ. of Penn., Philadel-
phia, Pa. *Zool., Vertebrates, Annelids, Leeches.* C.

Moore, Sherman, 117 Leicester Court, Detroit, Mich. *Lepid.,*

esp. from the Great Lakes Region.

Moore, Mrs. W. H., Woodstock, Vt. *Orn.*

Moorehead, Warren K., A.M., Cur. Dept. Arch., Phillips Academy, Andover, Mass. *Arch.* The Dept. has collection and might exchange with museums or collectors, early Indian life, also publications.

More, John D., Asst. Ent., 333 Capitol Bldg., Atlanta, Ga. *Ent.*

More, R. L., Vernon, Tex. *Zool.* C. Ex. and buy.

Morgan, Mrs. A. B., R. D. 2, Woodstock, Vt. *Orn.* C. Ex. Would like to buy or ex. bird skins.

Morgan, A. C., Clarksville, Tenn. *Ent.: Thyanoptera.* C. Ex.

Morgan, Ann H., Ph.D., Prof. Zool., Mount Holyoke College, South Hadley, Mass. *Ephemeriæ.* C. Ex.

Morgan, D. James Dudley, A.B., M.D., Chevy Chase, Md. *Morphol. Vert. Anat.* C.

Morgan, Mattie Beth, Asst. Prof., Coll. Industrial Arts, Denton, Texas. *Bot., esp. Plant Geog. and Ecol.* Working on "Flora of No. Central Texas."

Morgan, Prof. Thomas H., Columbia Univ., New York, N. Y. *Biol.*

Morrell, Mrs. H. K., 210 Maine Ave., Gardiner, Me. *Min., Con., Bot.* C.

Morrill, Austin W., Ph.D., 515 Pacific Finance Bldg., Los Angeles, Calif. *Hemiptera.* Ex.

Morrill, Walter Jean, Prof. of Forestry, Colo. Agric. Coll., Fort Collins, Colo. *Trees, Sericulture, Forest Measurement.*

Morris, Francis J. A., 643 Aylmer St., Peterborough, Ont., Can. *Ent.?*

Morris, Robert T., M.D., 616 Madison Ave., New York, N. Y. *Nut bearing trees and shrubs of the world.* Ex. seeds or plants.

Morris, Wm., Pine Bluff, Ark. *Forestry, Bot.*

Morrison, Harold, Bur. of Entomology, Washington, D. C. *Hemiptera, Scale Insects.*

Morse, Albert P., Curator Zool. Mus., Wellesley, Coll., Wellesley, Mass., Curator Natural History Museum, Salem, Mass. *Gen. Nat. Hist., Orn., Ent., Nat. Hist. Essex Co., Mass.*

Morse, Edw. S., Dir. Emer., Peabody Acad. Sci., Salem, Mass. *Zool., Eth.*

Morse, Frank E., 162 Boylston St., Boston, Mass. *Orn.*

Morse, Wm. C., Asst. Prof. Geol., Washington Univ., St. Louis, Mo. *Historical Geol. and Oil.*

Morss, Chas. H., 64 Parkinson St., Needham, Mass. *Bot.*

Mortenson, M. A., Minden, Nebr. *Orn.*

Morton, W. S., 610 Bellefontaine St., Pasadena, Calif.

Min. ?
 Moseley, E. L., A.M., Prof. of Biol., State Normal Sch., Bowling Green, Ohio. *Birds, Mammals, Reptiles, Fishes, Shells, Plants.* C. Ex.

Mosher Dr. Edna, Frederickton, N. B., Can. *Ent.* ?
 Moss, E. H., Univ. of Alberta, Edmonton, Alta., Can. *Fungi.*
 Mottier, David M., Prof. Bot., Bloomington, Ind. *Cytol., Morph., Physiology.*

Mousley, Henry, Hatley, Que., Can. *Orn., Orchids, Ferns, Butterflies.* Collects warbler skins, pressed orchids, and ferns only. C. Ex.

Moxley, Geo. L., 427 North Ave., 521, Los Angeles, Calif. *Bot.*

Moznett, Geo., Miami, Fla. *Ent.*

Muchmore, Rev. Lyman J., 928 West 35th Pl., Los Angeles, Calif. *Biol., Coleopt.* C.

Muesebeck, C. L. W., U. S. Bureau of Ent., Melrose Highlands, Mass. *Parasitic Hymenoptera.*

Muhlig, Fred M., 2316 Washington St., Joliet, Ill. *Arch., Ool., Anth.* C. Ex. ?

Muma, R. J., Ilderton R. R. 2, Ont., Can. *Mam.* C. Ex.

Mumford, F. B., M.S., Dean Coll. of Agric., Dir. Expr. Sta., Univ. of Mo., Columbia, Mo. *Agric., Animal Industry.*

Mundinger, Frederick G., Inst. in Zool., 401 Lyman Hall, Syracuse, N. Y. *Ent.*

Munro, James A., Chief, Federal Migratory Bird Offices for the Western Provinces, 1060 St. David St., Oak Bay, N. B., Can. *Orn.* C. Ex.

Munson, Dr. J. P., 706 North Anderson St., Ellensburg, Wash. *Cytology, Centrosome.* C. of invertebrates.

Munson, William Henry, B.S., Instructor State Normal School, 317 Franklin St., Winona, Minn. *Vert. Zool., Orn.*

Munz, Phillip Alexander, Assoc. Prof. Bot., Pomona Coll., Claremont, Calif. *Plant taxonomy, esp. of the Southwestern U. S.* C. Ex.

Murbach, Louis, Ph.D., Poultney-Castleton, Vt. *Supplies specialties.* Preparations of the semi-circular canals in bird heads.

Murdoch, John, 16 High Rockway, Allston, Mass. *Anth., esp. Eth., Eskimos, Orn.*

Murrill, Wm. A., B.S., A.B., A.M., Ph.D., New York Botanical Garden, New York, N. Y. *Mycology.*

Musch, Frederick A., 25 Wakefield St., New Haven, Conn. *Bot.* C. Ex. or buy.

Mutchler, Andrew J., Amer. Mus. of Nat. Hist., Central Park, New York City. *Coleoptera.*

Myers, Frank J., 15 So. Cornwall Place, Ventnor, N. J. *Research Assoc., Ratifera, Am. Mus. Nat. Hist., N. Y.*

City.

Myers, Mrs. Wm. R., V. P. Calif. Audubon Soc., etc. Author "Western Birds," 311 N. Ave. 66, Los Angeles, Calif. *Orn.*

Nabours, Robert K., Ph.D., Prof. Zool., Agric. Coll., Manhattan, Kans. *Inheritance in Orthop., Eugenics.*

Nachtrieb, Henry F., Prof. of Animal Biol. and Head of Dept., Univ. of Minn., Minneapolis, Minn. *Zool.*

Napier, Arthur H., 503 E. Willow Grove Ave., Chestnut Hill, Phila., Pa. *Diurnals, Sphingidae, and Catocalae of the U. S.* C. Ex. buy or sell. Wanted: perfect papered diurnals, sphingidæ, or catocalæ of the U. S. Desires correspondence.

Nash, Charles W., Provincial Museum, St. James Square, Toronto, Ont., Can. *Biol. C.*

Nason, William A., A.M., M.D., Algonquin, Ill. *Ent., Coleopt., Hymenopt., Dipt., Moll. C. Ex.*

Naylor, Ernst E., Asst. in Bot., Univ. of Mo., Lefevre Hall, Columbia, Mo. *Plant Physiol.*

Neal, Marie C., Asst. in Malacology, Bishop Mus., Honolulu, T. H. *Polynesian land shells.*

Neale, Harold J., Dir. and Landscape Arch., New Orleans, Zool. Soc., Audubon Park, New Orleans, La. *Zool. C. Ex.* and buy.

Needham, James G., 6 Thurston Ave., Ithaca, N. Y. *Odonata, Ephemerida, Plecoptera.*

Neff, Johnson A., Marionville, Mo. *Orn., Ent., Curios. C. Ex.*

Neiswanda, C. R., Asst. Ent., Ohio Agric. Expr. Sta., Wooster, Ohio. *Ent.: Hemiptera.*

Nelson, Aven, Pres. Emer., Univ. of Wyo. and Prof. Bot., Laramie, Wyo. *Bot. C. Ex.*

Nelson, Caspar I., Prof. Bacteriology, N. D. Agric. Coll., N. D. *Bacteria. Horticulture.*

Nelson, E. W., Biol. Survey, Dept. of Agric., Washington, D. C.

Nelson, Dr. James A., Bur. of Entomology, U. S. Dept. of Agric., Washington, D. C. *Morph. of insects.*

Nelson, James C., 104 E. Wilson St., Salem, Ore. *Syst. Bot.: esp. grasses.*

Nelson, John, "Wake Robin," Worcester, Telegram, Worcester, Mass. *Orn.*

Nelson, L. Nichols, N. Y. Pub. Lib., New York City. *Orn.*

Nelson, Ralph M., Inst. in Forest Pathol., Div. of Plant Pathol., Univ. Farm, Univ. of Minn., St. Paul, Minn. *Forest Pathol.*

Nelson, T. C., Assoc. Prof. Zool., Rutgers Coll., New Jersey Hall, New Brunswick, N. J. *Marine Ecol. with special ref. to oysters and marine forms.*

Nelson, W. A., State Geologist, Nashville, Tenn. *Geol.*
Netting, Graham, Carnegie Mus., Pittsburgh, Pa. *Vert.
Zool. esp. Orn. and Herpetol.*

Neuman, G. B., Dept. of Zool., State College, Pa.
Newbold, Patty T., Inst. in Bot., Rockford Coll., Rockford,
Ill. *Plants, esp. Grasses of all lands.* C. Ex.

Newcomb, H. H., 804 Elizabeth St., Pasadena, Calif. *Bril-
liant tropical butterflies.* Will buy, exchange or sell.

Newcomb, William Wilmon, M.D., (B.S. in Biol.) 90 Webb
Ave., Detroit, Mich. *Lepid.* C.

Newcombe, Charles F., M.D., 138 Dallas Rd., Victoria,
B. C., Can. *Eth., Bot. of B. C.* C.

Newcombe, Frederick Charles, Ph.D., Emer. Prof. of Bot.,
Univ. of Mich., Honolulu, T. H. *Physiological Bot.*

Newcomer, E. J., U. S. Bureau of Ent., Box 243, Yakima,
Wash. *Econ. Ent.*

Newell, Frederick H., Univ. of Ill., Urbana, Ill. *Strat. and
Phys. Geol. and Hydrography.*

Newell, Wilmon, Gainesville, Fla. *Ent.*

New Jersey Ent. Co., P. O. Box 432, South Amboy, N. J.
Insects of all orders.

Newman, A. T., Bloomer, Wis. *Fossils, Gen. Nat. Hist.*
C. and buy.

Newman, C. C., Prof. of Hort., Clemson Coll., Clemson Col-
lege, S. C. Horticulturist, S. C. Expr. Sta. *Hort.*

Newsom, John F., A.M., Ph.D., Geologist, Palo Alto, Calif.
Geol.

Newton, Robert, Prof. of Plant Biochemistry, Univ. of
Alberta, Edmonton, Alta., Can. *Plant science gener-
ally, Bot., Physiol., Ecol., Chem.*

Nichols, Fred M., 12 W. Highland Ave., Melrose 77, Mass.
Ent., Biol., Orn., Tax.

Nichols, George E., Prof. Yale Univ., 439 Edgwood Ave.,
New Haven, Conn. *Bot.*

Nichols, Mrs. H. V., 138 Green St., Melrose, Mass. *Butter-
flies.*

Nichols, Prof. Henry W., Assoc. Curator Geol., Field Mu-
seum of Nat. History, Chicago, Ill. *Geol., Min.*

Nichols, John Treadwell, Asst. Cur. of Fishes, Amer. Mus.
of Nat. Hist., New York City. *Fishes.*

Nichols, L. N., Public Libr., New York City. *Orn.*

Nichols, Miss Margaret A., Hathorne, Mass. *Gen. Nat.
Hist.*

Nichols, Susan P., Assoc. Prof., 871 Forest St. Oberlin,
Ohio. *Fresh Water Algae.* C. Ex. and sell.

Nichols, Dr. W. H., Derry, N. H. *Indian Relics, Arch.*
C. Ex. and buy.

Nickles, J. M., U. S. Geol. Survey, Washington, D. C.

Nicodem, Mrs. Clarice, 1600 Seward Ave. Detroit, Mich.

Nature Study, Geog.
Nicol, Carl C. W., Ph.D., Asst. Prof. of Psychology and Philosophy, Oberlin Coll., Oberlin, Ohio.
Nicolay, Alan S., 416a Grand Ave., Brooklyn, N. Y. *Buprestidæ of world, N. A. Cerambycidæ.* C. Ex.
Nieuwland, Julius A., csc.c., Ph.D., Sc.D., Prof. of Bot., Assoc. in Organic Chem., also editor of American Midland Naturalist, a Jr. of Bot. Zool. and Phys. Geog. of Middle West, Dir. of Univ. and E. L. Greene Herb., The Univ. of Notre Dame, Ind. *Phæn. Plants, Myxomycetes.* C. Ex.
Ninman, H. J., Asst. Plant Pathologist, State Capitol Annex, Madison, Wis. *Plant Pathol., Forestry.*
Ninninger, H. H., Prof. of Biol., 759 E. Euclid St., McPherson, Kans. *Orn., Ent., Geol., Palæo.*
Noble, Mary A., Inverness, Fla. *Ferns.*
Noble, G. K., Am. Mus. of Nat. Hist., New York City.
Noe, Charles F., M.D., Amana Iowa. *Arch., Indian Relics.* C. Ex. Indian Relics.
Nolan, Willis J., M.S., Bur. of Ent., Washington, D. C. *Apidae, The Honey Bee.*
Noland, Lowell E., Inst. in Zool., Univ. of Wis., Biology Bldg., N. W., Madison, Wis. *Study of Protozoa.*
Norris, H. W., Parker Mus. Nat. Hist., Grinnell Coll., Grinnell, Iowa.
North, H. B., D.Sc., Consulting and Research Chem., formerly Prof. of Inorg. Chem. at Rutgers Coll., now Pres.-Treas. of the North Metal and Chem. Co. of York, Pa. *Min.*
Norton, Arthur H., Cur. Portland Soc. of Nat. Hist., Portland, Me.
Norton, J. B. S., College Park, Md. Bot. and plant pathologist Md. Exp. Sta. *Euphorbioceæ, Chem. effects on plants. Dahlia plant diseases.* C. Ex. *Tithymalopsis and Mycosphaerella.*
Norton, Merrill R., Head Dept. of Biol., 605 First St., Harvard, Ill. *Orn. Buy mounted birds.*
Norwood, C. J., Univ. of Ky., Lexington, Ky. *Mining and Metallurgy.*
Notman, Howard, 136 Joralemon St., Brooklyn, N. Y. *Artist, Ent., Coleopt.* C. Ex. Lepid. and Coleopt.
Nothstein, Ira O., Cur. Augustus Coll. and Mus., 3113—8th Ave., Rock Island, Ill. *Specimens of primitive culture.* C. Ex.
Novy, F. G., Prof. Univ. of Mich., Sc.D., M.D., LL.D., Ann Arbor, Mich. *Bacteriology.*
Nowell, John W., Ph.D., Prof. Chem., Wake Forest Coll., Wake Forest, N. C. *Organ. and Ind. Chem.*
Noyes, Alice Ayr, 75 Winchester St., Bradford, Mass.

Trichoptera.

Noyes, H. Wallace, 83 West St., Portland, Me. *Min., Geol. C.*

Noyes, William A., Ph.D., LL.D., Chem.D., Prof. of Chem., and Dir. of Chem. Laboratory, Univ. of Ill., Urbana, Ill.

Nuenenmacher, F. W., 11 Arbor Drive, Piedmont, Calif. *Coccinellidæ. C. Ex. buy or sell.*

Numbauer, Lamar K., 902 Main St., Hartford, Conn. *Butterflies, Indian Relics. C. Ex.*

Nutting, Charles Cleveland, A.M., 922 Washington St., Iowa City, Iowa. Prof. Zool., Cur. Mus. Nat. Hist. State Univ., Iowa City, Iowa. *Cælenterata, particularly Hydrozoa and Alcyomaria.*

Nylander, Olof O., Caribou, Me. *Geol., Palæo., Bot. C. Ex.*

Nylen, Joseph V., 333 Union Ave., Providence, R. I. *Coleopt., Hymen., Lepid., Diptera, C. Ex.*

Oberholser, Dr. Harry C., Biol. Survey, Dept. of Agric., Washington, D. C. *Orn., Ool., Geog. Dist.*

Oberholzer, Mrs. Sara L., 2113 Tioga St., Philadelphia, Pa. *Orn., Bot. C. Tasmania Birds, skins and eggs in great variety also Australian ferns for sale cheap to collectors.*

O'Connell, Marjorie, Ph.D., Formerly Research Asst. in Palæo. and Stratigraphy, Am. Mus. Nat. Hist., New York, N. Y.

Odell, W. S., 67 Powell Ave., Central Expr. Farm, Ottawa, Ont., Can. *Mushrooms.*

O'Donoghue, Chas. H., D.Sc., F.Z.S., F.R.S.C. etc. Prof. of Zool., Univ. of Manitoba, Winnipeg, Man., Can. *Physiol. and Mammary glands and Circulatory System. Vertebrates.*

O'Gara, P. J., Amer. Smelting & Refining Co., Salt Lake City, Utah. *Plant Pathol.*

Ogden, H. V., M.D., 141 Wisconsin St., Milwaukee, Wisc. *Orn., Mam., Herpet., Bot.*

Ogilvie, Ida H., Ph.D., Assoc. Prof. Geol., Barnard College, New York City, N. Y.

O'Harra, Cleophas Cisney, Ph.D., LL.D., Rapid City, S. Dak. *Min., Econ. Geol.*

Ohern, D. W., Consulting Geol., 709 Branett Bldg., Oklahoma, Okla. *Geol.*

Ohlson, W. F., 550 Market St., San Francisco, Calif. *Mic.*

Okkelberg, Peter, Asst. Prof. Zool., Univ. of Mich., Ann Arbor, Mich. *Comp. Anat. and Emb.*

Oldroyd, Mrs. Ida S., Box 1198, Stanford University, Calif. *Conch.*

Oldys, Henry, Silver Spring, Md. *Writer and Lecturer on*

Birds. Specialty, bird music.
Olive, Edgar William, Ph.D., Cur. Botanic Garden, Brooklyn, N. Y. *Bot., Cytology.*

Oliney, Albert J., Univ. of Ky., Lexington, Ky. *Hort.*

Olsen, Chris. E., Am. Mus. Nat. Hist., Central Park, New York City. *Cicadellidae, Hemipt.* C. Ex. or buy.

O'Neal, Claude E., Prof. Bot., Wesleyan Univ., 95 Oak Hill Ave., Delaware, Ohio. *Gen. Bot., Cytology, Mycology, Bacteriology.*

O'Neill, Edmond, Univ. of Calif., Berkeley, Calif. *Chem.*

Orcutt, Charles R., La Jolla Calif. Editor "West Am. Scientist" *Bot., Moll., Min.* C. Ex. for books, live plants, esp. cacti.

Ordway, Helen Frances, (Formerly Inst. of Biol., Woman's Col., Brown Univ.) 20 Myrtle St., Winchester, Mass. *Coleopt., Lepid.*

Orndorff, W. R., A.B., Ph.D., Prof. of Organic Chem., Cornell Univ., Ithaca, N. Y. *Chem.*

Orr, William, Educational Advisor in Europe; International Comm. Y. M. C. A., Home Address: 347 Madison Ave., New York City. European Address: Am. Y. M. C. A., 2 Boulevard du Théâtre, Geneva, Switzerland. *Geol.*

Orr, Dr. R. B., M.B., Dir. Ontario Provincial Museum, Toronto, Ont., Can. *Arch., Ent.* C. Ex.

Ortenburger, A. I., Asst. Cur., Dept. Herpetology, Am. Mus. Nat. Hist., 77th St. & Central Park, New York City. *Reptiles, and Amphibians, snakes in particular.*

Ortmann, Arnold Edward, Cur. Carnegie Mus., Pittsburgh, Pa. *Invertebrates, chiefly crustaceous and Molluscs.* C. Ex. for Museum.

Ortmann, Prof. A. E., Carnegie Univ., Pittsburgh, Pa. In charge of Coll. of Innest. *F. W. shells with soft parts, (naiades).*

Orton, Clayton Roberts, Prof. Plant Pathol. and Plant Pathol. to Agric. Expr. Station, State College, Pa. *Diseases of Economic Crops.* C. of fungi. Ex.

Orton, John G., M.D., Binghamton, N. Y. *Paleo., Min., Mic.*

Orton, W. A., Pathol., in charge of Cotton, Truck and Forage Crop Disease Investigations, Bureau of Plant Industry, Dept. of Agric., Washington, D. C. *Veg. Pathol.* C. Ex.

Osborn, Prof. Henry Fairfield, Amer. Mus. of Nat. Hist. 77th St. and Central Park W., New York City. *Fossil Vertebrates, Biol.*

Osborn, Henry Leslie, Ph.D., Biol. Lab., Hamline Univ., St. Paul, Minn. *Trematoda, Evolution.*

Osborn, Herbert, Research Prof. of Zool. and Ent., Dir. Ohio Biol. Survey, Ohio State Univ., Columbus, Ohio.

Hemipt., Mallophaga. C. Temipt. N. and S. Am. Ex. for desiderata.

Osborne, Prof. Raymond C., Ohio State Univ., Columbus, Ohio. *Syrphidae.*

Osburn, Prof. Raymond C., Head of Dept. of Zool. and Ent., Ohio State Univ., Columbus, Ohio. *Fishes, Bryozoa, Ent.*

Osgood Wilfred H., Field Mus. Nat. Hist., Chicago, Ill. *Orn., Mammals, Geog. Dist., S. Amer.*

Oslar, Ernest J., 4535 Raleigh St., Denver, Colo. Collector. A stock of duplicates of all orders always on hand. Send for price list.

Osmer Herman, West New Brighton, N. Y. *Ent., Alpine Plants, Tropical and F. W. Fishes.* C. Ex.

Osmun, A. Vincent, Prof. of Botany and Head of Dept. of Bot. M.A.C., Amherst, Mass. *Fungi, Algæ, Ferns.*

Ostergaard, Jas. M., Asst. Inst. in Zool., Univ., of Hawaii, 2517 Kalakana Ave., Honolulu, T. H. *Moll. (Cypræa) fossil and recent.* C. Ex. for rare sp.

Osterhout, Prof. W. J. V., 60 Buckingham St., Cambridge, Mass. *Bot. ?*

Oswald, W. A., 301 Wilson Ave., Montreal P. Q., Can. Gen. *Nat. Hist.*

Otis, Rev. J. P., Marshallton, Del. *Bot.* C. Ex.

Ottolengui, Dr. R., 80 West 40th St., New York City. *Plusiinæ of the world.* C. ex. and buy. Will pay extra prices, or give very liberal exchange for North American Plusiinæ or variations thereof not in my collections.

Ouellet, Prof. Joseph, C.S.V., 1145 St. Viateur Ave., Outremont, Que., Can. *Coleopt., Dipt., Hemipt., Bot.* C. Ex.

Ouellette, Rev. B., Maison Provinciale des Viateurs, Outremont, P. Q., Can. *Ent., Coleopt.*

Over, Wm. H., Cur. Univ. Museum, Vermillion, S. Dak. *Nat. Hist.*

Overacker, Minnie L., Teacher of Bot., Central High School, Syracuse, N. Y. *Bot. ?*

Overholts, L. O., Assoc. Prof. Bot., Penn. State Coll., State College, Pa. *Mycol.*

Overton, Frank M.D., Patchogue, N. Y. *Wild Birds and animal photographs, Gen. Biol. birds and amphibians. Specialty photographing wild life.*

Overton, James Bertram, 512 Wisconsin Ave., Prof. Univ. Wisc., Madison, Wis. *Plant Physiol.*

Owen, Prof. Edward T., Prof. Emer. in Univ. of Wis., 624 State St., Madison, Wis. *Native and exotic Lepid., Rhopalocera, Sphingids, Bombycids,* C. Ex. Great variety of dups.

Owen, Humphrey G., Asst. Prof. of Biol., State Univ. Mont.,

400 Daly Ave., Missoula, Mont. *Biol.*
Owen Miss Luella A., 306 No. 9th St., St. Joseph, Mo.
Geol., Geog., Cave Regions of the Ozarks and Black Hills. Evidence supporting theory of geyser action.
Floods of the Mo. River and its tributaries. Origin and deposition of loess.

Oxley, A. D., West Liberty, Iowa, *Biol., Bot.*

Paarmann, J. Herman, Cur. Davenport Academy of Sciences, Davenport, Iowa. *Orn., Agric., Econ. Bot.*

Packard, Wales H., Prof. of Biol., Bradley Polytechnic Inst., Peoria, Ill. *Biol.*

Packard, Winthrop, 1442 Washington St., Canton, Mass. *Nature in general, esp. attracting and preserving birds, also rare bird books.*

Paddock, Miner H., A.M., Prof. Sciences, Technical High School, Providence, R. I. *Palæo., Geol., Min., Crystall., Lithol. C. Ex.* Author "Mineral Science" for High

Page, Frederick S., Dartmouth Coll., Hanover, N. H. *Biol.*

Paige, Sidney, U. S. Geol. Surv., Washington, D. C. *Geol.*

Paine C. J., Room 400, 11 Beacon St., Boston, Mass. *Butterflies, Catocalæ.*

Paine, R. G., U. S. Nat. Mus., Washington, D. C. *Herpet.*

Painter, R. H., Dept. of Zool., Univ of Texas, Austin, Tex. *Zool. Ent., Ecol. C.*

Palache, Chas., Prof. of Mineralogy, Harvard Univ., Cambridge, Mass. *Min., Crystall.*

Pallister, Hugh D., University, Ala. *Geol., Mining.*

Pallister, John C., Head Dept. of Ent., Cleveland Mus. of Nat. Hist., 2717 Euclid Ave., Cleveland, Ohio. Home address: 3754 Independence Road. *Ent., Invert. Zool., Coleopt. C. Ex.*

Palmer, Ernest Jesse, 321 Main St., Webb City, Mo. *Bot., Geol., Arch.*

Palmer, Harold S., Prof. Geol., Univ. of Hawaii, Honolulu, T. H. *Geol., esp. Physical.*

Palmer, Miriam A., Asst. Prof. Zool., Colo. Agric. Coll., Fort Collins, Colo. *Aphidæ.*

Palmer, T. C., F.R.M.S., Pres. Delaware Co. Inst. of Sci., Media, Pa. *Bot., Diatoms, Algæ, Isotes. C. Ex.*

Palmer, T. S., M.D., Biol. Survey, U. S. Dept. Agric., Washington, D. C. *Mammals, Orn., Game Protection.*

Pangburn, Clifford, 299 Madison Ave., New York, N. Y. *Orn.*

Pardoe, Dr. J. B., D.D.S., Box 383, Bound Brook, N. J.

Parham, G. E., Experimental Farm, Invermere, B. C., Can. *Ent. ?*

Parish, H. S., 81 Roberts St., Toronto, Ont., Can. Dealer in *Foreign and Native Lepid.* C. Ex. Wish to buy or sell.

Park, Oscar W., 110 The Vivarium, Champaign, Ill. *Api-*

culture.

Parke, Davis & Co., Herbarium, P. O. Box 468, Detroit,
Mich. *Bot. esp. medical.* C. Ex.

Parker, A. C., State Museum Albany, N. Y. *Arch., Eth., Biol.*

Parker, Edgar M., Licensed Naturalist and Tax., Montgomery City, Mo. *Birds, Eggs, Nests, Small Mammals, Reptiles.* C.

Parker, George Howard, 16 Berkeley St., Cambridge, Mass. *Zool., Physiol.*

Parker, Gordon, M.F., Asst. Prof. of Forestry, Dir. Colo. School of Forestry, Colo. College, 1401 Wood Ave., Colorado Springs, Colo. Forestry.

Parker, Hazel, Bio. Inst., West High Sch., 41 Finch St., Rochester, N. Y. *Biol.*

Parker, J. R., Asst. Ent., Bozeman, Mont. *Ent.: Pemphiginae, Culicidae.* Ex.

Parker, Ralph R., Ph.D., U.S. P.H.S., Hamilton, Mont. *Med. Ant., Animal parasites, Sarcophagidae from any part of the world.* C. Ex. or buy.

Parkhurst, J. A., Yerkes Observ., Williams Bay, Wis. Ast., *Photographic stellar photometry.*

Parks, Thaddeus H., Prof. of Extension Ent., Dept. of Ent., Ohio State Univ., Columbus, Ohio. *Cereal crop insects.*

Park, T. H., Kansas State Agric. Coll., Manhattan, Kans. Ent. ?

Parlin, John C., Freedom, Me. *Bot.*

Parmenter, Chas. L., Zool. Bldg., Univ. of Pa., Philadelphia, Pa. *Cytol.*

Parr, Samuel W., Prof. Applied Chem., Univ. of Ill., Urbana, Ill. *Chem., Metal.*

Parrott, P. J., New York Agric. Sta., Geneva, N. Y. *Ent.*

Parry, Edw. H., Dir. Buck Hill Nature Club, Buck Hill Falls, Pa. *Wyncote, Pa. The Outdoors, Orn., Bot.*

Parshley, H. M., Sc.D., Assoc. Prof. of Zool., Dept. Zool., Smith Coll., Northampton, Mass. *Hemiptera, Heteroptera, Genetics.*

Pasch, F. C., 1224—75th St., Brooklyn, N. Y. N. A. *Lepid. C. Ex. ?*

Patch, Clyde L., Naturalist and Zool., Geological Survey, Ottawa, Can.

Patch, Dr. Edith Marion, Agricultural Experiment Sta., Orono, Me. *Aphididae.*

Patten, Prof. Bradley M., Ph.D., Western Reserve Univ. Med. Sch., Cleveland, Ohio. *Histol., Embryol.*

Patten, Wm., Prof. Biol., Dartmouth Coll., Hanover, N. H. *Palaeo., Zool., Gen Biol., Emb., Arachnids.* C. Ex. C. of Ostracoderms. Ex. for related forms.

Patterson, Donald, Newark, Calif. *Lepid.* C. Ex. and buy.

Patterson, Mrs. Flora W., A.M., Mycologist in charge office
of Path. Collections. *Taxonomy of Fungi, My col.*
Dept. of Agric., Washington, D. C. ?

Patterson, Harry J., Director, Md. Agric. Expr., Sta.
College Park, Prince George Co., Md. *Chem.*

Patterson, J. T., Ph.D., Prof. of Zool., Univ. of Texas,
Austin, Texas. *Armadillos.*

Patton, Horace B., Ph.D., Prof. Geol. and Min., Colo. School
of Mines, Golden, Colo. *Geo., Min., Petrog.* ?

Payen, Nellie M. C., Asst. in Ent., Univ. Farm, St. Paul,
Minn. *Ent.*

Payne, Edw. W., Springfield, Ill. *Stone Age Relics.* Buy
choice spec.

Payne, F. F., Toronto, Can. *Meteo., Gen. Biol., Orn.*

Payne, H. G., Agric. Coll., Truro, N. S., Can. *Ent. C.*

Payne, William W., Elgin Observatory, Elgin, Ill. *Cor-
rect Standard Time*, getting it from the stars, keeping
accurately for the Elgin Nat. Watch Factory.

Payson, Edwin B., Assoc. Prof. of Bot., Dept. of Bot., Univ.
of Wyo., Laramie, Wyo. *Dist. of flowering plants and
ferns.* Ex. herbarium spec.

Peacock, Bess R., 3904 Hawk St., San Diego, Calif. *Wild
plants, esp. of the desert, Orn.*

Pearsall, Richard F., Allaben, N. Y. *Ent: Geometridæ.*

Pearse, Arthur Sperry, Ph.D., Assoc. Prof. of Zool., Univ.
of Wis., Madison, Wis. *Zool., Ecol., Crustacea Fishes.*

Pearse, Theed, Courtenay, B. C., Can. *Orn.*

Pease, Arthur Stanley, Prof. of Classics, Univ. of Ill., 114
W. Oregon St., Urbana, Ill. *Syst. Bot.*

Peaslee, Leon D., A.M., Ph.D., 763 Delta Ave., Cincinnati,
Ohio. *Biol., Phys. Geol.*

Peattie, Donald R., Bureau Plant Industry, Dept. Agric.,
Washington, D. C.

Peck, Frederick B., Lafayette Coll., Easton, Pa. *Geol. of
Ores and Minerals.* C. Ex. Ore samples and well
crystallized min.

Pegram, Geo. B., A.B., Ph.D., Prof. of Physics, Columbia
Univ., New York, N. Y. *Elect. Phys.*

Peirce, G. J., Prof. of Bot. and Plant Physiol., Stanford
Univ., Calif. *Bot., Veg. Histol., Physiol., Effects of
industrial plants of vegetation.*

Peterson, F. W., 1077 New York Ave., Pasadena, Calif.
Syst. Bot.

Petersen, A. K., Prof. of Bot., Colo. Agric. College, Fort
Collins, Colo. *Plants of the Rocky Mt. Region.* C.
Ex.

Pellett, Frank C., State Bee Inspector, Atlantic, Iowa.
Gen. Nat. Hist. C. General Ex. Butterflies. ?

Peltier, Geo. Leo., Ph.D., Prof. of Plant Pathol., Univ. of

Neb., College of Agric., Lincoln, Nebr. *Environment and its relation to disease.*

Pember, F. T., Granville, Washington Co., N. Y. *Orn., Ferns. Ent. C. Ex. ?*

Pember, Karl A., State Ornithologist, Woodstock, Vt. *Live Birds, Eggs, Bird Magazines. Specialize on Duck Hawk, Peregrine and Falcon. C. Buy.*

Pendl, A. E., 1616 Panama St., Los Angeles, Calif. *Tax.*

Penfound, Wm. T., R. D. 4, Elyria, Ohio. *Bot., Ecol., Plant Geog., Animal Ecol.*

Pennell, Francis W., Ph.D., Acad. of Nat. Sciences, Philadelphia, Pa. *Bot. Scrophulariaceæ and local flora. Buy or Ex.*

Pennock, Mrs. Aldrich J., Lansdowne, Pa. *Orn., Bot., Chem., Min., Geol.*

Pennock, C. J., Kennett Square, Chester Co., Pa. *Orn., Ool. C. Ex.*

Pennock, Edward, 3609 Woodland Ave., Philadelphia, Pa. *Mic., Bot. Dealer in fine microscopes, new and second-hand, etc.*

Penrose, Charles B., Ph.D., M.D., LL.D., 1720 Spruce St., Philadelphia, Pa.

Penrose, J., 4 Rhodes Ave., Toronto, Ont., Can. *Tax., Orn., Mam. C. Ex. buy.*

Penrose, R. A. F., Jr., Ph.D., Geologist, Bullitt Bldg., Philadelphia, Pa.

Pepper, G. W., 36 Norwich Ave., Providence, R. I. *Shells. C. Ex. ?*

Pepper, John O., Asst. in Ent., 1501 Belmont Ave., Columbus, Ohio. *Ent. work and Biol. in general. C. Ex. and buy.*

Perkins, Charles A., Ph.D., Prof. E. E., Univ. Tenn., Knoxville, Tenn. *Phys., Elect. Eng.*

Perkins, Prof. Edward H., Dept. of Geology, Waterville, Me.

Perkins, Prof. George H., Univ. of Vt., Burlington, Vt. *Geol., Anth.*

Perkins, Henry Farnham, Ph.D., 205 S. Prospect St., Burlington, Vt. *Prof. of Zool., Univ. of Vt. Zool., Phys.*

Perrin, Jas., McNab's Island, Halifax, N. S.

Perry, Joseph H., Teacher of Chem. and Geol., English High School, 276 Highland St., Worcester, Mass. *Geol., Chem.*

Persing, Ellis C., Inst. Biol. Sci., Cleveland School of Education, Cleveland, Ohio. *Trees, Forestry, Conservation. C. Ex.*

Pessin, Louis J., Ph.D., Assoc. Prof. of Bot., A. & M. College, Miss. *Phys. and Ecol. of air-plants and Gen. Morph. and Ecol.*

Peter, Alfred M., Chemist, Ky. Agric. Expr. Sta., Lexington, Ky. *Analyt. and Agric. Chem.*

Peter, George, Chief Artist, Public Museum, Milwaukee, Wis. *Anth.*

Peters, Harold S., 363 W. Ninth Ave., Columbus, Ohio. *Orn., Bot., Zool., Geol., Bird banding.*

Peters, Wm. J., 310 Rosemary St., Chevy Chase, Md. *Exploration, Geog., Ast., Oceanography.*

Peterson, Alfred, L., Box 211, Pipestone, Minn. *Orn., Bot.*

Peterson, Alvah, Ph.D., New Brunswick, N. J., care Rutgers.

Peterson, Olof August, Field collector and Asst. Cur. Mammals, Carnegie Museum, Pittsburg, Pa.

Petrunkевич, Alex., Ph.D., Osborn Zool. Lab., New Haven, Conn. *Zool., Arachnida.*

Petter, G. A., 470 Granville St., Vancouver, B. C., Can. *Birds, Flowers, Fish.*

Pettit, Dr. R. Fred, First Nat. Bank Bldg., Albuquerque N. Mex. *Am. Mammals, Arch.*

Pettit, Rufus H., B.S.A., Prof. of Ent. Mich. Agric. Coll. and Exp. Sta., East Lansing, Mich. *Ent.*

Petty, Walter M., E.E., Rutherford, N. J. *Org. and Inorg. Chem., Phys., Elect., Photog., Radio.*

Phair, A. W. H., Lillooet, B. C., Can. *Ent.*

Phee, Prof. M. J., S.J., Creighton College, Omaha, Nebr. *Biol.*

Phelan, Joseph Warren, S.B., Mass. Inst. of Tech., Boston, Mass. *Rare earth metals.*

Phelps, J. H., School Dept., Crosby, N. D. *Flowers of western prairies.*

Phelps, Rev. Warren A., 19 Tennyson Ave., Pittsfield, Mass. *Orn., esp. bird migrations.*

Philbrick, L. O., 124 Washington St., Haverhill, Mass. *Ent.*

Philhower, Charles A., Westfield, N. J. *Birds, Trees and Flowers. Esp. Indian implements.* C. Ex.

Phillips, A. H., Prof. Min., Princeton Univ., Princeton, N. J.

Phillips, Charles, B.A., M.D., Prof. Pathology, Wake Forest Coll., Wake Forest, N. C.

Phillips, Edw. B., 81 Church Lane, Germantown, Phila., Pa. *Bot.*

Phillips, Everett Franklin, A.B., Ph.D., Bureau of Ent., Washington, D. C. In charge of Bee Culture Investigations. *Apidae—The Honey Bee.*

Phillips, John C., Wenham, Mass. *Bot.*

Phillips, Richard J., M.D., 123 South 39th St., Philadelphia, Pa. *Ichthyology.*

Piazza, Enrico, F.E.S., 4734—48th St., San Diego, Calif.

Lepid: Moths. Coleopt. C. Will sell.
Pickering, Byron J., Prin. Schools, 1235 Crosby St., Chester, Pa. *Every phase of Sci. esp. Arch. and Min.*

Pickett, F. L., Wash. State Coll., Pullman, Wash.

Piemeisel, Robert L., Bureau of Plant Industry, Washington, D. C. *Plant Ecol.*

Pierce, W. Dwight, Ph.D., Biologist, Consulting Research Dir., 138 B St., San Mateo, Calif. *Ent: Strepsiptera, Rhynchophora.* C.

Pierce, Wright M., 313 West Third St., Claremont, Calif. *Orn. C. Ex.*

Piers, Harry, Cur. Prov. Mus. of Nova Scotia, Halifax, N. S., Can. *Zool., Geol., Min., Bot., Arch.*

Pierson, Charles J., Prof. of Zool., Univ. of Md., College Park, Md. *Vert. Morphol., Embryology.*

Pilate, G. R., Winfield, La. *Ent.*

Pilquist, G. E., Dardanelle, Ark. *Pearls, Indian relics.*

Pilsbry, Henry A., Sc.D., Cur. Dept. of Mollusks, Acad. of Nat. Sci. of Philadelphia, Phila., Pa. Editor of "The Manual of Conchology," and "The Nautilus." Desires shells of all kinds, and barnacles from all countries. Offers American and Conchological publications. C. Ex.

Pindar, Dr. L. Otley, Pres. Ky. Orn. Soc., Versailles, Ky. *Orn., esp. Geog. Dist.*

Piper, Chas. V., Agrostologist, Bureau Plant Industry, Washington, D. C. *Bot., Ent. C.*

Pirnie, Miles D., Inst. in Orn., McGrew Hall, Ithaca, N. Y. *Birds, Mam.*

Pleas, C. E., Chipley, Fla. *Hort., Bot., Ent: Butterflies, Curios, Con. Kudzen Plants.* C. Sell.

Plitt, Charles C., Prof. Bot. and Nat. Med., School of Phar., Univ. of Md., 3933 Lowndes Ave., Baltimore, Md. Interested in the study and collections of *ferns, lichens, mosses and flowering plants in this vicinity. Lichens.* Will be pleased to identify lichens if ample material is sent. C. Ex.

Ploger, Louis W., Asst. Prof. of Geol., 938 Ackerman Ave., Syracuse, N. Y. *Rocks, Min., Fossils, Photog.* C. Ex. and buy.

Plough, Harold H., Assoc. Prof. Biol., Amherst Coll., Amherst, Mass., *Diptera, Pond Snails.*

Plunkett, O. A., Fellow in Botany, 605 W. Univ. Ave., Urbana, Ill. *Bot., Mycol., Plant Pathol.* C. Ex.

Pohlman, Dr. A. G., 869 Atalanta Ave., Webster Groves, Mo.

Poitevin, Eugene, D.Sc., Chief, Div. of Mineralogy, Dept. of Mines, Geol. Survey, Ottawa, Ont., Can. Min.

Pollard, Charles L., Bethel, Me. *Ent.*

Pollitz, Miss Louise, In charge of collections, Cleveland Mus. of Nat. Hist. (2717 Euclid Ave., Cleveland, Ohio), 2122 West 100th St., Cleveland, Ohio. *Bot., Ecol., Geol.*

Pollock, C. H., 41 Brooks Ave., Newtonville, Mass. *Minerals.*

Pollock, Horatio M., M.S., Ph.D., State Hospital Commission, Albany, N. Y. *Bot., Zool. Hydrachnidæ.*

Pollock, James B., M.S., Sc.D., Assoc. Prof. of Bot., Univ. of Mich., 922 Church St., Ann Arbor, Mich. *Plant Physiol., Bacteriol., Live secreting plants.*

Pomeroy, Fred E., Prof. of Biol., Bates Coll., Lewiston, Me. *Gen. Nat. Hist.*

Pond, Alonzo W., 17 East St. South, Janesville, Wis. *Orn., Conservation, Arch.*

Pond, Brewer W., 18 Tremont St., Boston, Mass. Landscape Architect. *Ferns and N. E. Native Flora.* C. Ex.

Pond, Fred E. (Will Wildwood), c-o Angler, 1400 Broadway, New York City. *Bibliog., Zool., Mam., Orn.* C. Ex. Books. ?

Pontius, F. Dale, 216 E. Cosmo Ave., State Univ., Columbus, Ohio. *Orn., Bot., Bird banding.*

Pool, Raymond J., Prof. Head Dept. Bot., Univ. of Neb., Sta. A., Lincoln, Nebr. *Plant Ecol., Physiol. Tax.* C. Buy.

Poole, Earl L., Y. M. C. A. Bldg., Reading, Pa. N. A. *Orn.*

Poole, Dr. James P., Asst. Prof. of Evolution, Dartmouth Coll., Hanover, N. H. *Plant Anat.*

Poor, R. S., Geo. Dept., Univ. of Ill., Urbana, Ill.

Pope, T. E. B., Cur. Invert. Zool., *Reptiles and Fishes*, Pub. Museum, Milwaukee, Wis. Ex.

Porter, A. F., 104 W. Broadway, Decorah, Iowa. *Lepid.*

Porter, Bennet A., U. S. Bureau of Ent., 10 W. Sycamore St., Vincennes, Ind. *Econ. Ent.*

Porter, C. L., 828 W. Main St., West Lafayette, Ind.

Porter, Dupoval D., 806 Lane Blvd., Kalamazoo, Mich. *Rocks, Min., Gem Stones.* C. Ex. and buy.

Porter, Edgar F., R. D. 2, Athol, Mass. *Orn., Min., Zool.* C. Ex. and buy

Porteus, Charles R., Modeler in groups and murals, Public Museum, Milwaukee, Wis. *Anth.*

Post, P. T., State Geol. Survey, Urbana, Ill.

Post, Wm. S., Bernardsville, N. J. *Orn.*

Postley, Miss O. C., U. S. Geol. Surv., Washington, D. C.

Poteat, Wm. Louis, M.A., Prof. Biol., Wake Forest Coll., Wake Forest, N. C. *Biol., Crypt., Protozoa.*

Potter, A. J., East Killingly, Conn. *Ent., Dealer in Lepid.*

Potter, F. B., 267 So. Main St., New Britain, Conn. *Lepid.*
C. Buy, ex. or sell. Desire to receive ova for sale in season. My desiderata is general and offerta is general. Will collect or rear anything in my territory. Will collect Coleopt. in ex. for Lepid.

Potter, Julian K., 563 Bailey St., Camden, N. J. *Orn.*

Potter, Laurence B., Gower Ranch, Eastend, Sask., Can. *Orn.*

Potts, S. F., Asst. in Ent., Univ. of Md., College Park, Md. *Ent., Pathol.*

Pough, Richard H., 4 Lenox Pl., St. Louis, Mo. *Orn., Bot. Min.* C. ex. and buy.

Pound, Roscoe, 490 Pleasant St., Belmont, Mass. *Fungi.* C. ?

Povah, Alfred H. W., Ph.D., Asst. Prof. of Bot., 9 Fisk Hall, Northwestern Univ., Evanston, Ill. *Mycol., Plant Pathol.* C. Ex.

Powers, Edw. B., Prof. of Zool., Univ. of Tenn., Knoxville, Tenn. *Migration in general and fish migration in particular.* Ex. papers.

Poyser, W. Aldworth, F.R.M.S., Sec. Phila. Mic. Soc., 2418 Catherine St., Philadelphia, Pa. *Diatoms, Ferns, Fishes.* Gen. Mic. C. Ex. and buy.

Prager, Prof. Wm. E., Kalamazoo Coll., Kalamazoo, Mich. *Bot., Orn.* C.

Pratt, Miss Florence L., Public Library, Brattleboro, Vt. *Bot.*

Pratt, Henry S., Ph.D., Prof. Biol., Haverford Coll., Haverford, Pa. *Zool., Parasites.* C.

Pratt, Jos. Hyde, Ph.D., Chapel Hill, N. C. *Min., Geol.*

Pratt, Oliver Goodell, City Forester, Salem, Mass. *Nature Studies.*

Pray, L. S. Field Mus. of Nat. Hist., Chicago, Ill. *Tax.*

Preble, Edward A., Biol. Survey, Dept. of Agric., Washington, D. C. *Ecol., Geog., Dist. of birds, mammals and reptiles.*

Preece, Capt. W. H. A., Sault Ste. Marie, Ont., Can. *Orn., Ent., Lepid: Papilionidae, Sphingidae, Catocalae.* etc. C. Ex.

Prentice, Charles F., M.E., 149 Broadway, New York, N. Y. *Opticist (esnec. Physiol. Optics), Physics.*

Prentiss, Rev. Wm. C., Plainfield, Conn. *Orn.*

Prescott, Samuel C., Prof. of Industrial Microbiology, Mass. Inst. of Tech., Cambridge, Mass. *Bacteriology.*

Preston, A. R., Port Dover, Ont., Can. *Orn.*

Preston, Caroline M., State Agric. Coll., Fort Collins, Colo. *Artist for Expr. Sta., Bot.*

Preston, Charles H., S.B., Hathorne, Essex Co., Mass. *Bot., Chem., Orn.*

Preston, H. W., 98 Westminster St., Providence, R. I. *Trees, Ecol.*

Pretz, Harold W., 368 Union St., Allentown, Pa. *Ferns (and Pteridophytes).* C. Ex. *Spermatophytes, Pteridophytes.*

Price, G. C., Prof. in Zool., Leland Stanford Jr. Univ., Calif. *Zool., Vert. Emb.*

Price, H. F., 18 Robinson St., Somerville, Mass. *Bot.*

Price, Walter Allen, Assoc. Prof. in Ent., Purdue Univ., La Fayette, Ind. *Ent.*

Pride, A., Sub-Curator, Toronto Univ., Toronto, *Can. Zool.*

Priest, Geo. H., 33 No. Ash St., Brockton, Mass. *Bird banding.*

Prill, Dr. A. G., Scio, Ore. *Orn., Ool., Photog. of Birds.* C. Ex.

Prince, Prof. E. E., Dom. Com. of Fisheries, Ottawa, Ont., Can. *Ichthyol.*

Pring, George H., 1107 Magnolia Ave., St. Louis, Mo. *Bot.*

Prouty, John Jay, 38 Seneca St., Baldwinsville, Onondaga Co., N. Y. *Indian Relics, Curios.*

Prouty, Prof. W. F., Ph.D., Prof. of Geol., Chapel Hill, N. C. *Min., Econ. Min.* C. Ex.

Pryor, J. W., Univ. of Ky., Lexington, Ky. *Physiol.*

Psota, Frank J., M.D., 4046 West 26th St., Chicago, Ill. *Coleopt.* C. Ex.

Purcell, Lancelot A., Box 475, Dartmouth, N. S., Can. *Birds and Mammals.*

Purchase, Arlo S., 1813 South Ave., Syracuse, N. Y. *Indian relics and curios of all kinds.* C. Ex.

Purpus, C. A., In care T. S. Brandegee, Univ. of Calif., Berkeley, Calif. *Mexican plants.*

Putnam, Bessie L., A.M., Harmonsburg, Pa. *Bot., Palæo., Geol., Nature Study.*

Putnam, Edw. D., Cur. Municipal Mus., Edgerton Park, Rochester, N. Y. *Birds, Moths, Butterflies, All Museum material.*

Putnam, Edw. K., Acting Dir., Davenport Acad. of Sci., Davenport, Iowa. *Arch.*

Putnam, Phillip, Lake Cushman, Wash. *Reptiles, Amphibians, Insects.*

Putnam, Philips Griswold (Student, State College, Wash.) Box 65, Hillsboro, Ore. *Ent., Herpet., Gen. Zool.*

Quayle, H. G., Citrus Exper. Sta., Riverside, Calif. *Ent.*

Quick, Rev. A., Messler, A.M., 50—7th Ave., Brooklyn, N. Y. *Chem., Orn.* C.

Quirk, Terence T., Univ. of Ill., 705 W. Oregon St., Urbana, Ill. *Tectonic, Pre Cambrian Geol.* C. Ex.

Quirsfeld, Edw. D., Hillsdale, N. J. *Coleopt.: Melasidae and Elateridae of the world.* C. Ex. buy.

Racey, R., 3262 First Ave., Vancouver, B. C., *Can. Birds, Mam.* C. Ex.

Radcliffe, Lewis, Bureau of Fisheries, Washington, D. C. *Ichth., Methods, Economics and Statistics of the Fisheries, Deputy Comm. of Fisheries.*

Daddin, Charles S., Evanston, Ill. *Bot.: Plants, Ferns, Min.* C. Ex. ?

Raine, Walter, Waverley Rd., Kew Beach, Toronto, Ont., *Can. Orn., Zool., Ool.*

Rainey, F. L., Centre College, Danville, Ky. *Biol., Geol.*

Raker, W. S., 1308 Northwestern Bank Bldg., Portland, Ore. *Lectures on the Nat. Hist. of Ore.*

Rakestraw, John L., 4917 Drexel Rd., Philadelphia, Pa. *Min., Stuffed Birds and Animals.*

Ranaley, Francis, Prof. of Biol., Univ. of Colo., Boulder, Colo. *Seed Plants of Colo. and Calif.* C.

Rambant, Thomas D., 120 Broadway, New York City. Graduate of Columbia Univ. with several degrees; practising law in the financial district of New York; running a farm near Wyckoff in Bergen Co., N. J. A ten acre lake lies on this farm, which is a sanctuary for birds and fishes. Exchanges regarding farm animals, products and water fowl and fish are desired.

Ramsden, Charles T., Box 146, Guantanamo, Cuba. *Ent., Orn., Mam., Con. (land and f. w.) Herpet., Ool.* Ex. Interested in Cuban or allied W. I. forms only. Will ex. specimens for other spec. or literature and zool. accessories.

Ranara Biological Supply Co., 3615 Melpomene St., New Orleans, La. *Bot., Zool., Ent., Parasitology, Life Histories of Insects, Ecology.* C. Ex.

Rand, Edward L., 1899 Mass. Ave., Cambridge, Mass. *Bot.: Flora Mt. Desert Island,* Maine.

Rand, H. S., 1899 Mass. Ave., Cambridge, Mass. *Bot.*

Rand, Herbert Wilbur, Ph.D., Assoc. Prof. of Zoology, Harvard Univ., Museum of Comparative Zoology, Cambridge, Mass. *Vertebrate Skeletons.*

Randall, Harlan E., 17 Milk St., Newburyport, Mass. *Ent., Arch. C. of Lepid.* ?

Rankin, Walter M., Ph.D., Princeton, N. J. *Bot. Invert.*

Ransom, Dr. B. H., Chief Zoologist, Bureau of Animal Industry, Washington, D. C. *Parasites.* C. Ex.

Ransom, F. L., Ph.D., Prof. of Econ. Geol., Univ. of Ariz., Tucson, Ariz.

Ransom, Stephan Walter, M.D., Ph.D., Prof. of Anatomy, Northwestern Univ., Medical School, Chicago, Ill.

Rapp, S., Box 387, Sanford, Fla. *Mosses, Hepaticæ, Lichens.* Ex. or sell.

Rast, Otto B., 370 East 159th St., New York City. *Ent.*

Rathbun, Dr. Mary J., Assoc. in Zool., U. S. Nat. Mus., Smithsonian Institution, Washington, D. C. *Crustacea, recent and fossil.*

Rau, Eugene A., Bethlehem, Pa. *Bot. C.*

Rau, Phil., 2819 S. Kingshighway Boul., St. Louis, Mo. *Hymenopt.*

Ravenel, M. P., M.D., Columbia, Mo. *Bot.*

Ravenel, W. de C., Administrative Asst., Smithsonian Inst., Washington, D. C.

Raymenton, Dr. W. H., 3425—31st St., San Diego, Calif. *Zool.*

Raymond, Wm. J., 2622 Piedmont Ave., Berkeley, Calif. *Moll., Invert. Palæo. of Western North America.* C.

Rea, Paul M., Dir. Cleveland Mus. of Nat. Hist., Cleveland, Ohio. *Museum Administration.*

Reagh, Dr. Arthur L., Maple St., West Roxbury, Mass. *Ent.*

Reamer, Louis, Short Hills, N. J. *Min. C. Ex.*

Rebeck, George, 2245 Indiana Ave., St. Louis, Mo. *Butterflies and moths.* C. Ex. for good material.

Recht, Adolph, 430 East 67th St., New York City. *Lepid.*

Redfield, A. H., U. S. Geol. Survey, Washington, D. C.

Redfield, Dr. Alfred C., Ph.D., Harvard Med. Sch., Boston, Mass. *Physiol.*

Redway, Jacques W., F.R.G.S., Geographer and Author, 254 So. Second Ave., Mt. Vernon, N. Y. *Laboratory for the study of air impurities and atmospheric dust. Geog. and Education.*

Reed, Bessie Price, A.B., Kansas Univ., 308 East 19th, Lawrence, Kans. *Orn.*

Reed, E. L., Agric. Mechan. Coll., College Sta., Texas. *Ent. ?*

Reed, Dr. Ernest, Botany Dept., Syracuse Univ., Syracuse, N. Y.

Reed, Dr. George M., Brooklyn Botanic Garden, Brooklyn, N. Y.

Reed, Guilford B., Prof. Bact., Queens Univ., 218 Albert St., Kingston, Can. *Plant Physiol., Bacteriology.*

Reed, Hugh Daniel, B.S., Ph.D., McGraw Hall, Ithaca, N. Y. *Gen. Zool., Comp. and Expr. Morph.* C. Ex.

Reed, Dr. H. S., Prof. Plant Physiol., Graduate Sch. of Trop. Agric., Citrus Exp. Sta., Riverside, Calif.

Reeds, Chester A., Ph.D., (Yale), Asst. Cur. Am. Mus. Nat. Hist., New York City. *Geol., Invert. Palæo.* Large Mus. Coll. Wish to ex. or buy invertebrate fossils.

Reese, Albert Moore, Prof. of Zool., W. Va. Univ., Morgan-

town, W. Va. *Crocodilia and Amphibia*.
Regan, W. S., Dept. of Ent., Agric. Coll., Amherst, Mass.
Ent. ?
Regar, H. Severn, 1400 De Kalb St., Norristown, Pa. *Orn.*,
Coll.
Rehder, Alfred, Arnold Arboretum, Jamaica Plain, Mass.
Bot. C. ligneous plants, wild and cultivated. Ex.
Rehder, Harold A., 62 Orchard St., Jamaica Plain, Mass.
Conch.: L. F. W. and Marine Shells. C. Ex.
Rehn, J. A. G., Acad. Nat. Sci., Philadelphia, Pa. *Ent.*
Reid, Mary Fielding, Ph.D., Johns Hopkins Univ., Balti-
more, Md. *Dynam. Geol., Physics, esp. Glaciers and*
Earthquakes.
Reid, Russell, 210 Thayer St., Bismarck, N. D. *Orn., Gen.*
Nat. Hist.
Reider, Howard, 1612 Kenneth Ave., New Kensington, Pa.
Ent.
Reighard, Jacob, Ann Arbor, Mich. Prof. Zool., Univ. of
Mich. *Fishes.*
Reineke, Sophia C., 251 Dickens Ave., Ben Avon, Pa. *In-*
sect life in gen., Orn., Bot. C. Ex.
Reischer, Paul, Gypsy Oil Co., Tulsa, Okla. *Geol.*
Remington, P. Sheldon, The Principia, St. Louis, Mo.
Moll., Lepid. C. Ex.
Remsen, Ira, Pres. Emer. and Prof. Emer., Chem., Johns
Hopkins Univ., Baltimore, Md. *Chem.*
Renner, Frederich G., U. S. Forest Service, Albuquerque,
N. Mex. *Forest Pathol., Ecology, Forestry.*
Reppert, R. R., State Agric. Coll., Manhattan, Kans. *Ent.,*
Life Histories Studies.
Resser, Charles Elmer, Ph.D., Assoc. Cur. Palaeont., U. S.
Nat. Mus., Washington, D. C.
Stratigraphy.
Rettger, Louis J., A.B., A.M., Ph.D., Indiana State Normal
School, Terre Haute, Ind. *Physiol.* C. Ex.
Rexford, Dr. Emmet, 1795 California St., San Francisco,
Calif. *Conchology.* C. Ex.
Reynolds, Ernest Shaw, Ph.D., Prof. Bot., Agricultural
College, N. D. *Parasitic Fungi.* C. Ex.
Reynolds, Frank, 97 Andover St., Peabody, Mass. *Orn.,*
Bot., Ent., Geol., Forestry. C. buy.
Rhoads, Samuel N., 81 Haddon Ave., Haddonfield, N. J.
Birds and Mammals. C. of bird books. Dealer in na-
ture books. Buy old books.
Rhodes, Chas. O., Groton, N. Y. *Bot.* Ex.
Rice, A. Jacob, 1041 Wood St., Easton, Pa. *Min.* C. Ex.
Rice, Edw. L., Prof. Zool., Ohio Wesleyan Univ., Delaware,
Ohio. *Vert. Anat. and Emb.*

Rice, Wm. North, Prof. Geol. (Emeritus) Wesleyan Univ., Middletown, Conn. *Geol.*

Rich, Herman E., East Hampton, Conn. *Geol., Min., Zool., Mammals, Orn., Ool., Tax., Ent. C. Ex.*

Rich, Waldo L., P. O. Box 221, Saratoga Springs, N. Y. *Orn.* Will buy a few select skins of certain species.

Richards, Aute, Prof. Zool., Wabash Coll., Crawfordsville, Ind. *Cytol. and Comp. Histol.* ?

Richards, Chas. D., 74 Robert St., Toronto, Ont., Can. *Orn.*

Richards, F. W., 104 St. Luke St., Montreal, Can. *Mic.*

Richards, Herbert M., Columbia Univ., New York, N. Y. *Physiol., Crypt. Bot.*

Richards, Theodore W., Ph.D., Sc.D., LL.D., Chem. D., M.D., Gibbs Mem. Laboratory, Harvard College, Cambridge, Mass. *Phys. Chem., Inorg. Chem.*

Richardson, F. L. W., Jr., South St., Charles River, Mass. *Orn.*

Richardson, Henry H., 25 Cottage St., Brookline, Mass. *Am. Wild Plants and Birds.*

Richardson, James Keith, Asst. Plant Pathol., Box 867, Fredericton, N. B., Can. *Plant Pathol.*

Richardson, Jenness, Univ. Tax., Univ. of Minn., Minneapolis, Minn. *Zool. Groups, Nature Photog.*

Richardson, Charles W., Smithsonian Inst., Washington, D. C. *Orn.*

Richmond, Edw. A., 187 Highland St., Brockton, Mass. *Hydrophilidae.*

Richter, Clemens Max, M.D., 209 Post St., San Francisco, Calif. *Meteo., Climatol., and Oceangr., Med. Epidemiology.*

Ricker, Percy L., Asst. Botanist, Forage Crop Investigations, U. S. Dept. Agric., Washington, D. C. *Economic plants, Wild flower preservation.*

Ricketts, P. de P. E. M., Ph.D., Care Ricketts & Co., 80 Maiden Lane, New York, N. Y. *Metall., Chem., Assaying.*

Ricksecker, Mrs. L. E., 1083-8th Ave., San Francisco, Calif. *Coleopt.* Will collect to order in Calif. *Mountains.*

Riddle, Miss Janet, McKinley Industrial Home, Los Angeles, Calif. *Lepid.*

Riddle, Oscar, Cold Spring Harbor, L. I., N. Y. *Scientific Research, The Biology of Sex.*

Ridgeway, John L., Los Angeles Mus., Exposition Park, Los Angeles, Calif. *Gen. Nat. Hist.*

Ridgway, Robert, Cur. Div. of Birds, U. S. Nat. Museum, Washington, D. C. *Orn., Forestry, Bot.*

Ridsdale, Perseval S., Editor, Nature Magazine, 1214 16th St., Washington, D. C.

Ries, D. T., 401 Thurston Ave., Ithaca, N. Y. *Econ. Ent.*
Ries, Heinrich, A.M., Ph.D., Prof. of Geol., Cornell Univ.,
Ithaca, N. Y. *Econ. Geol., Clays.*

Rigg, George B., Assoc. Prof. Bot. Dept., Univ. of Wash-
ington, Seattle, Wash. *Plants of Peat Bogs, Ever-
greens.*

Riggs, Dr. Louis W., Yarmouth, Maine. *Phan. and Crypt.
Bot., Min. C. Ex.*

Riley, C. F. Curtis, M.A., M.Sc., Asst. Prof. of Zoology,
Univ. of Manitoba, Winnipeg, Man., Can. *Ecol., Be-
havior, particularly Hemipt.*

Riley, Joseph Harvey, U. S. Nat. Museum, Washington,
D. C. *Birds.*

Riley, William A., Chief, Div. of Ent. and Econ. Zool.,
Univ. Farm, St. Paul, Minn. *Med. Zool. Wishes Insect
Carriers of Diseases of Man and Animals.*

Ripley, Winfield S., Jr., 40 Emerson St., Wakefield, Mass.
Bot.

Ritchie, John, Pres. N. E. Federation of Nat. Hist. Soci-
ties, 115 Washington St., Malden, Mass. *Conchology.*
C. Ex.

Ritter, Harry W., Tippecanoe City, Ohio. *Sphingidae Cat-
ocalae, Papilio.* C. About 2,000 species. Ex. or buy.
Particularly wish to exchange for common U. S. or
foreign species.

Ritter, Wm. E., Ph.D., Dir. Scripps Inst. for Biol. Research,
La Jolla, Calif. *Protochordata, Marine Zool., Amphib-
ians, C. Ex. ?*

Rives, W. C., 1702 R. I. Ave., N. W., Washington, D. C.
Orn.

Rixford, Dr. Emmet, 1795 California St., San Francisco,
Calif. *Mollusks.*

Roasch, Gilbert, Asst. in Geol., 764 N. Cambridge Ave.,
Milwaukee, Wis. *Geol., Orn., Wis. Palaeo., Min.*

Robbins, E. C., Nurseryman, Pineola, Avery Co., N. C.
Native ornamentals. C. Ex. and buy.

Robbins, Linville Wadsworth, A.M., Houlton, Maine. *Bot-
any.*

Robbins, Samuel D., 40 Centre Ave., Belmont, Mass. *Orn.,
Ast.*

Robbins, W. J., Ph.D., Columbia, Mo. *Bot.*

Robert, Joseph A., B.A.Sc., M.E., Geol. Survey, Ottawa,
Ont., Can. *Geol., Min., Nat. Gas and Oil.*

Roberts, C. M., Botany Dept., Pa. State College, Pa. *Mosses.*
C. Ex.

Roberts, H. E., U. S. Bureau of Ent., Webster Groves, Mo.
Coleopt. C. Ex.

Roberts, Herbert F., A.B., M.Sc., F.A.A.S., Asst. Prof. of
Bot., Univ. of Man., Winnipeg, Can. *Genetics, Plant*

Physiol.

Roberts, Isaac, 217 E. Washington St., West Chester, Pa.
Orn., Bird Preservation.

Roberts, Paul S., Natick, Mass. *Tax.*

Roberts, Thomas S., M.D., Room 311, Zool. Museum, Univ. Minn., Minneapolis, Minn. *Orn. C.*

Robertson, Albert Duncan, Prof. Zool., Univ. of Western Ont., London, Ont., Can. *Moll., Insects, Fishes, Amphibians, Reptiles, Birds, Mam.* C. Ex. and buy.

Robertson, Alexander, 10 St. John St., Montreal, P. Q., Can.

Robertson, Carl, Cleveland Plain Dealer, Cleveland, Ohio. *Ent., Mycol.*

Robertson, Mr. and Mrs. Harold R., 136 Buffum St., Buffalo, N. Y. *Con., Ent., Mic.* C. Ex. butterflies.

Robertson, Howard, 157 Wilton Drive, ? *Orn., Mam., Palæo.*

Robertson, J. McB., Buena Park, Orange Co., Calif. *Orn., Gen. Nat. Hist.*

Robinett, W. W., Dona, Va. *Fossils, Shells, etc.* C. of fossils. Ex. for other species and Indian relics.

Robinson, Benj. Lincoln, Ph.D., Prof. Systematic Bot. and Cur. of Gray Herbarium, Harvard Univ., 3 Clement Circle, Cambridge, Mass. *Phæn. plants of Mex. and of Galapagos Ids., also Compositæ of the tribe Eupatoricæ.* Flowering plants of the Am. Tropics.

Robinson, Brittain B., Grad. Asst. in Plant Breeding, 1023 East Grand River, East Lansing, Mich. *Plant and Animal Genetics.*

Robinson, J. M., Assoc. Prof. Zool. and Ent., Box 264, Auburn, Ala. *Orn., Bee Culture, Genetics.*

Robinson, Virginia C., Maryville, Mo. *Bird life, Ent.* Making col. of Lepid. and Moths.

Rcbinson, W. I., Geol. Surv. Mich., Lansing, Mich. *Palæo.*

Robinson, Wirt, Col. U. S. A., West Point, N. Y. *Nat. Hist. in gen. Birds, Mammals, Lepid., Coleopt., Indian Relics.* C.

Robitaille, Rev. A., Laval Univ., Quebec, Can. *Bot. C.*

Robson, R. Christopher, 68 Obed Hulnne, Victoria, B. C., Can. *Moths and Butterflies.* C. ?

Rochester, DeLancey, M.D., 131 Linwood St., Buffalo, N. Y. *Zool., Gen. Biol., Anth., Eth., Philol.*

Rockwood, L. P., U. S. Ent. Lab., Forest Grove, Ore. *Econ. Ent.*

Roddy, H. Justin, M.S., Ph.D., Millersville, Lancaster Co., Pa. *Geol., Orn. C.*

Roe, Miss Mabel, 209 E. Broadway, Anaheim, Calif. *Plant Pathol.*

Roebling, Washington A., Trenton, N. J. *Min. C. Ex.*

Roessle, Harry, 4171 Park Lane South, Woodshaven, L. I., N. Y. *Ent.*

Rogers, Charles G., Ph.D., Prof. of Comp. Physiol., Oberlin Coll., Oberlin, Ohio.

Rogers, Charles H., Cur. Princeton Mus. Zool., Princeton, N. J. *Orn.*

Rogers, James Speed, Prof. of Biol., Univ. of Fla., Gainesville, Fla. *Ecol., Zooleography, Tipuloidæ (Diptera),* Esp. interested in Tipuloidæ of No. and Central Am. Will determine N. A. species.

Rogers, J. H., 198 Washington St., Medford, Mass. *Lepid. C. Ex.*

Rogers, Leslie, 137 Shelton Ave., New Haven, Conn. *Lepid. C. Ex.*

Rogers, Dr. Wallace, 801 Vernon St., La Grange, Ga. *Photog. of Nat. Hist. Subjects, esp. Birds, Orn.* Wish to ex. photographs.

Rohwer, Sievert Allen, Bureau of Ent., Dept. of Agric., Washington, D. C. *Hymenoptera, Geog. Dist. and History of Ent.*

Roland, Germain, Brother, 125 Empress, Ottawa, Can. *Bot.*

Rolland, Frère, 125 Empress St., Ottawa, Can. *Bot.*

Romaley, Dr. Francis, Boulder, Colo. *Bot.*

Romig, C. D., Audenried, Pa. *Fossils, Ool., Mic.*

Rood, Almon N., Phalanx, Ohio. *Bot. C. Ex.*

Rose, B., B.Sc., Asst. Prof. of Geol. and Min., Queens Univ., Kingston, Ont., Can. *Geol.*

Rose, Dickinson L., Mankato, Minn. *Geol.*

Rose, J. N., Assoc. Cur. Div. Plants, Smithsonian Inst., Washington, D. C. *Bot.*

Rosen, R. O., 8917 S. Broadway, St. Louis, Mo. *Lepid. C. Ex.* from all parts of world.

Rosendahl, C. O., Prof. of Bot., Univ. of Minn., Minneapolis, Minn. *Syst. Bot., Saxifragaceæ.*

Rosewall, Oscar W., Louisiana State Univ., Baton Rouge, La. *Coleopt., family Pentatomidae.* C. Ex.

Ross, Geo. H., 23 West St., Rutland, Vt. *Orn., Ool., Bot.*

Ross, Lucretius H., M.D., 507 Main St., Bennington, Vt. *Orn.*

Ross, Norman J., Danielson, Conn. *Orn., Raptore Sets. C. Ex.*

Ross, Roland Case, 388 Dearborn St., Pasadena, Calif. *Orn., Biol. in general.*

Ross, W. A., Vineland Sta., Ont. Dominion Ent. Laboratory. *Aphididæ.* C. buy or ex. Aphididæ.

Rossberg, Wm. B., 95 Camp St., New Britain, Conn. *Geol.*

Rossignol, Gilbert R., Jr., 2116 Bull St., Savannah, Ga. *Orn. and Ool. C. Ex.* Birds' eggs.

Rothermel, J. G., 1737 N. 17th St., Phila., Pa. *Geol., Micro-*

Rothke, Max, 1841 E. Elm St., Scranton, Pa. *Lepid. biol.*
(Macros and micros) Pieridæ, Lycænidæ, Arctidæ, Catocalæ and Gemetridæ preferred. Plants. Will ex. sell and buy fertile eggs, larvæ and pupæ, also perfect butterflies and moths. Apantesis eggs always desired.

Rothrock, Boyd P., Curator, Penn. State Museum, Harrisburg, Pa. *Birds of Pa.* C. Ex. Birds, Animals, etc.

Rothrock, E. P., Assoc. Prof. Geol., Vermillion, S. D.

Roundy, P. V., Palæontologist, U. S. Geol. Surv., Washington, D. C. *Mic. Organisms that lived in carboniferous time.*

Routt, Grover C., Carrollton, Ky. *Biol.*

Rowan, Wm., Prof. of Zool., Univ. of Alberta, Edmonton, Alta., Can. *Gen. Zool., Comp. Anat.*

Rowe, J. P., Prof. of Geol. and Min., Univ. of Mont., Missoula, Mont. *Cretaceous and Invert. Fossils.* C. Ex.

Rowley, John, Taxidermist, Los Angeles Museum, Exposition Park, Los Angeles, Calif. *Tax., Birds, Mammals, Reptiles, Plants.*

Rowley, R. R., Supt. Schools, Louisiana, Mo. *Palæo., esp. Blastoids, Crinoids, Brachiopods, Ent.: Lepid. esp. Catocalæ, Sphingidæ.*

Rubrecht, G. Keller, 999 Island Ave., Milwaukee, Wis. *Ent.*

Rueckert, Arthur, Chicago Acad. of Sci., Chicago, Ill. *Orn., Tax.*

Ruedemann, Dr. Rudolf, Asst. State Palæontologist, Albany, N. Y. *Graptolites, Palæozoic Cephalopods, Eurypterids.* C. Ex.

Rugg, Harold Goddard, Hanover, N. H. *Botanical Specimens and live roots of ferns.* Ex.

Ruggles, Mrs. T. E., Ruggles Lane, Milton, Mass. *Con.*

Ruhl, Charles A., 4952 N. Central Park Ave., Chicago, Ill. *Mic., Photog.*

Ruhmann, Max H., Govt. Ent., Box 740, Vernon, B. C., Can. *Ent.*

Rummel, Charles, c/o Newark Museum Assoc., Newark, N. J. *Lepid. C.*

Rumsey, W. E., Morgantown, West Va. *Ent.*

Runyon, Robert, Box 11, Brownsville, Tex. *Bot., Photog.* C. Ex.

Rush, C. B., 617 W. 155th St., New York City. *Tropical Fish.*

Rush, Raymond C., M.D., Hudson, Ohio. *Malacology.* C. Gen. Conchology. Ex. foreign countries.

Rusley, Dr. H. H., Dean of Coll. of Pharmacy, Columbia Univ., New York City. 776 De Graw Ave., Newark, N. J.

Russell, Dr. Alice M., 5003 Penn St., Frankford, Philadelphia, Pa. *Bacteriology.*

Russell, C. P., Park Naturalist, Yosemite Nat. Park, Calif. *Gen. Nat. Hist.*

Russell, Fred H., 375 Woodward Ave., Detroit, Mich. *Bot.*

Ruth, Albert, 2907 Vickery Blvd., Polytechnic, Tex. *Syst. Bot. C. Ex. Sell Texas Plants.*

Ruthven, Alex G., Ph.D., Mus. of Zool., Univ. of Mich., Ann Arbor, Mich. *Herpet., Geog. Dist. of Animals, esp. Reptiles and Amphibians.* C. buy Reptiles and Amphibians.

Ryan, Everett R., P. O. Box 292, Fort Atkinson, Wisc.

Ryan, Ruth Winifred, A.B., M.A., 202 Nat. Hist. Bldg., Univ. of Ill., Urbana, Ill. *Bot., Mycol.*

Rydberg, Per Axel, Ph.D., Curator, New York Bot. Garden, New York, N. Y. *Flora of Rocky Mountains, Saxifragaceæ, Rosaceæ, Ambrosiaceæ, Carduaceæ, Leguminosæ.*

Sackett, Walter G., S.B., Ph.D., Bacteriologist, Colorado Expr. Sta., Ft. Collins, Colo.

Sage, Jno. H., Portland, Conn. *Orn. C.*

Salisbury, Chas. M., 19 College St., Providence, R. I. *Geol., Min., Palæo. C.*

Salyer, J. C., Jr., 2412 Main St., Lexington, Mo. *Orn., esp. of Western Mo.*

Sampson, E., U. S. Geol. Survey, Washington, D. C.

Sampson, Homer C., Dept. of Bot., Ohio State Univ., Columbus, Ohio.

Sanborn, C. C., Field Mus. Nat. Hist., Chicago, Ill. *Orn.*

Sanders, G. E., Deloro, Ont., Can. *Zool.*

Sanders, J. G., Bur. Plant Ind., Harrisburg, Pa. *Cicadellidae, Coccoideæ.*

Sanders, P. D., Univ. of Md., College Park, Md. *Ent.*

Sandhouse, Miss Grace, Biol. Dept., Univ. of Colo., Boulder, Colo.

Sando, W. J., Bureau of Plant Industry, Dept. of Agric., Washington, D. C.

Sandsten, E. P., Ph.D., Prof. of Hort., Colo. Agric. Coll., Fort Collins, Colo. *Bot., Plant Physiol., Plant Breeding, Econ. plants.*

Sandus, P. D., Asst. in Ent., Univ. of Md., College Park, Md. *Bio-Chem.*

Sanford, J. A., 17 W. Magnolia St., Stockton, Calif. *Phæn. C.*

Sanford, Edmund C., Ph.D., Clark Univ., Worcester, Mass. *Psychol. and Mind in Animals.*

Sanford, L. C., M.D., New Haven, Conn. *Orn. C.*

Sanford, S. N. F., Boston Soc. Nat. Hist., 234 Berkeley St., Boston, Mass. *Bot.*

Sanger, H. M., M.D., 90 Waterman St., Providence, R. I.
Gen. Biol.

Sangree, Rev. Carl R., Cunningham, Mass. *Bird Banding*.

Sanson, N. B., Banff, Alta., Can. Ex. in orders *Elateridae* and *Lampyridae*.

Santeson, Helen M. H., 48 Derby St., West Newton, Mass.
Bot., Orn., Conch. C.

Sapir, E., Ph.D., Ethnologist, Geol. Survey, Ottawa, Ont., Can.

Sardeson, Frederick W., Ph.D., Geologist, 414 Harvard St., S. E., Minneapolis, Minn. *Geol., Palæo.* C. Ex.

Sargent, Prof. C. S., Arnold Arboretum, Jamaica Plain, Mass.

Sargent, F. L., 27 Everett St., Cambridge, Mass. *Econ. Bot.*

Sargent, Francis H., Wolfeboro, N. H. *Bot., Orn.*

Sargent, Herbert E., Dir. Kent Scientific Museum, Grand Rapids, Mich. *Moll., Insects, Minn. Indian Artifacts.*

Sargent, Porter E., A.M., 50 Congress St., Boston, Mass. *Neurol., Zool., Morphol.* C. Brains. Ex..

Sass, Herbert R., 23 Legare St., Charleston, S. C. *Birds.*

Satterthwait, A. T., U. S. Ent. Laboratory, Webster Groves, Mo. *Ent., Bot., Ecol.* Ex. N. A. Calendra for same of the world.

Saunders, Prof. A. P., Hamilton College, Clinton, N. Y. *Catocalæ*.

Saunders, Aretas A., 48 Longview Ave., Fairfield, Conn. *Orn.* and other branches as they affect Orn. Special study of bird songs.

Saunders, Charles E., B.A., Ph.D., LL.D., Experimental Farm, Ottawa, Can. (Traveling in Europe). *Cereals.*

Saunders, Frederick A., Prof. Physics, Jefferson Lab., Cambridge, Mass. *Orn.*

Saunders, W. E., London, Ont., Can. *Orn., Ool., Mam., Bot.* C. Ex.

Savage, Thomas E., Prof. Geol., Univ. of Ill. and Geologist, Ill. Geological Survey, Urbana, Ill. *Palæo. and Stratigraphy.*

Saville, Marshall H., Prof. of Am. Arch., Columbia Univ., Member of Staff of the Mus. of the Am. Indians, New York, N. Y.

Sawyer, Edmund J., Park Naturalist, Yellowstone Park, Wyo. *Nat. Hist., Birds, Naturalist. Artist.*

Sayle, Mary, 149 W. Wilson St., Madison, Wis. *Animal Behavior, Ecol.*

Sayles, Robert W., Cur., Harvard Geol. Mus., Cambridge, Mass. *Glacial Geol.*

Sayre, Jasper D., Dept. of Botany, Ohio State Univ., Columbus, Ohio.

Sayre, Lucius E., Dean, Ph.M., B.Sc., Lawrence, Kans. *Materia Medica.*

Sayres, Mrs. Edw. S., 1825 Spruce St., Philadelphia, Pa. *Bot., Ferns.* C. Ex.

Searth, Prof. G. W., McGill Univ., Montreal, Can. *Bot.*

Schaarschmidt, Paul, 3626 N. Randolph St., Philadelphia, Pa. *Ent.*

Schaefer, Norman J., 378 London St., Buffalo, N. Y. *Butterflies and moths.* C. Ex. buy or sell. Spec. Papilio. Ex. any specimen in season. Offers and inquiries welcomed. So. Western collectors please write.

Schaefer, Oscar F., 669 Genesee St., Rochester, N. Y. *Orn.*

Schaeffer, Asa A., Prof. of Zool., Univ. of Tenn., Knoxville, Tenn. *Amœba.* Ex. ?

Schaeffer, Charles F. A., Assoc. Cur., Div. of Ent., Mus. of the Brooklyn Inst. of Arts and Sciences, Eastern Parkway, Brooklyn, N. Y. *Coleoptera.*

Schaffner, Daniel C., Treas., College of Emporia, Emporia, Kans. *Invert. Paleo.* C. of Fossils.

Schaffner, John Henry, Prof. Bot., Dept. Bot., Ohio State Univ., Columbus, Ohio. *Tax., Morphol., Genetics, Nature of sex, Equisitaceæ.*

Schaffner, John V., Jr., Asst. Ent., U. S. Bureau of Ent., 17 E. Highland Ave., Melrose Highlands, Mass. *Ophiонine.* C. Ex.

Schaller, Waldemar T., Ph.D., Washington, D. C. *Min.* ?

Schallert, Paul O., B.S., M.A., M.D., 1820 So. Main St., Winston-Salem, N. C. Prof. of Bot. in Salem Coll. C. Ex. Sell dups. of *Fungi, Lichens, Hepatica, Musci and Algæ.*

Schantz, Orpheus Moyer, Pres. Ill. Audubon Soc., 5215 W. 24th St., Cicero, Ill. *Orn., Bot., Geol.*

Schaus, W., Hon. Asst. Curator, U. S. Nat. Mus., Washington, D. C. *Lepid.*

Schear, E. Waldo Emerson, Prof. of Biol. and Geol., Otterbein Univ., Westerville, Ohio. *Animal Behavior.* C. Insects, Birds and Mammals. A few birds to sell or ex.

Schernikow, Ernest, 17 Battery Pl., New York, N. Y. *Min., Gems.* C. of Min.

Scheidt, Prof. Richard C., Ph.D., Sc.D., Lancaster, Pa. *Zool., Histol., Emb.*

Schenk, C. G., 105 Grand Ave., Milwaukee, Wis. *Ent.*

Schieber, C. C., Bureau of Ent., 1424 R St. N. W., Washington, D. C. *Lepid.* C. Ex. or buy.

Schlegel, Mathilde, 800 Main St., E. Aurora, N. Y. *Photography, Ferns, Mic., Zool., Orn., Bot.* C.

Schmaltz, Robert, 1166 Glenmore Ave., Brooklyn, N. Y. Dealer in all orders of insects, native and exotic.

Schools, colleges and collectors supplied. Estimates given, *Lepidoptera* especially. C. Ex. and buy.

Schmid, Edw. R., Inst. in Chem., Rutgers Coll., New Brunswick, N. J. *Min.* C. Ex.

Schmidt, Karl Patterson, Asst. Cur. of Amphibians and Reptiles, Field Mus. of Nat. Hist., Chicago, Ill. *Syst. and Geog. Study of Amphibians and Reptiles.*

Schmilder, R. G., 4351 Pechin St., Philadelphia, Pa. *Hymenopt.*

Schmitt, Waldo L., Cur. of Marine Invert., U. S. Nat. Mus., Smithsonian Inst., Washington, D. C. *Crust.*

Schmoll, Hazel Marguerite, M.S., Cur. of Nat. Hist., State Museum, Denver, Colo. *Ecol. Bot., Taxonomic Bot.*

Schmucker, Samuel Christian, Ph.D., Emer. Prof. of Biological Sciences, State Normal School, Rosedale Ave., West Chester, Pa. *Anth., Biol., Gen. Nat. Hist., Anthrop.*

Schneider, Albert, M.D., Ph.D., Univ. of Nebr., Lincoln, Nebr. *Mic.*

Schneider, Dr. F., 64 Grove St., Brooklyn, N. Y. *Ichth.*

Schneider, Philip F., 319 Jackson St., Syracuse, N. Y. *Palæo., Geol. Also Gems and Precious Stones.* C. Ex.

Schnell, Louis W., 5312 Murdock Ave., St. Louis, Mo. *Ent.*

Schock, Oliver D., Hamburg, Berks Co., Pa. *Palæo., Geol., Anth., Arch.* C.

Schoonhoven, John J., M.A., Lecturer and Writer, 773 Eastern Parkway, Brooklyn, N. Y. Pres. of Dept. of Zool. and Fellow of Brooklyn Inst. of Arts and Sciences, Fellow Am. Assoc. for the Advancement of Science, Brooklyn Entomological Club, Amer. Nature Study Society. Has done research; made a special study of *Parasitology*.

Schoonover, W. H., 1344 So. 26th St., Omaha, Nebr. *Lepid.* ?

Schoewe, Charles G., 953 2nd St., Milwaukee, Wisc. *Arch., Ethnol.* C. Ex. and buy.

Schott, Fred M., 854 Bushwick Ave., Brooklyn, N. Y. *Ent.: Coleopt., Dipt., Hymenopt.* C. Ex. or buy.

Schrader, Frank Charles, Geologist, U. S. Geol. Survey, Washington, D. C. *Mining, Geology.*

Schramm, E. Frank, Prof. of Geol., Univ. of Nebr., Box 1258, Lincoln, Nebr. Have Rose Quartz, Black Tourmaline, Clevelandite, Beryl, Cassiterite, and many other species from Black Hills of S. D. for ex. C. Minerals.

Schrenk, H. von, Mo. Bot. Garden, St. Louis, Mo. *Diseases of trees.*

Schroder, Hugo H., 527 W. Brown St., Bettendorf, Iowa. *Orn.*

Schuchert, Chas., Yale Univ., New Haven, Conn. *Invert. Fossils.*

Schuette, H. Geo., Box 134, Manitowoc, Wis. *Indian Relics. C.*

Schuh, R. E., A.M., Ph.D., Howard Univ., Washington, D. C. *Algæ.*

Schultz, Edwin W., B.A., M.E., 242 Main St., New Britain, Conn. *Bot. C.?*

Schultz, Orville J., Postville, Iowa. *Bot., Geol.?*

Schulz, Miss Ellen D., Dir. Dept. of Science, San Antonio Pub. Schools, and Cur. San Antonio Mus., 1625 Summit Ave., San Antonio, Texas. C. Ex.

Schurr, Burlingham, Dir. Cur., Museum of Nat. Hist., Worcester, Mass. Mr. Schurr is widely known as a lecturer on birds and the big outdoors.

Schwalke, Fred, 4940 Union Blvd., St. Louis, Mo. *Catocala.* C. Ex. and buy.

Schwardt, H. H., Box 465, Kansas State Agric. College, Manhattan, Kans. *Herpetology.*

Schwartz, Benj., 1468 Gerard St., N. W., Washington, D. C. *Animal Parasites.* C. Ex.

Schwarz, Ernst, 4510 Newstead Ave., St. Louis, Mo. Ent.

Schwarz, Frank, Naturalist, 1809 Lafayette Ave., St. Louis, Mo.

Schwarz, Herman, 720 Clark Ave., Webster Groves, Mo. Ent.

Schwarz, Max, 1813 Lafayette Ave., St. Louis, Mo. Ent., Mam., Coleopt., Tax. C.

Scofield, Carl S., Agriculturist in charge of Western Irrigation, Agric., Bureau of Plant Industry, U. S. Dept. of Agric., Washington, D. C.

Scollie, J. W., 4124 New Hampshire Ave., U. S. Nat. Mus., Washington, D. C. C. *Osteological preparator.*

Scott, Irving D., Ph.D., Asst. Prof. Physiography, Univ. of Michigan, Ann Arbor, Mich. *Physiography.*

Scott, George S., 20 Nassau St., New York City, Min. ?

Scott, John W., Prof. Zool. and Research Parasitologist, Univ. of Wyo., Laramie, Wyo. *Parasites, external and internal, esp. human and those from domestic animals.* C. Ex.

Scott, Mrs. Samuel, Custer, So. Dak. *Gem. Stones, Ornamental Stones from the foremost rose quartz mine of Am.*

Scott, Prof. W. B., Princeton Univ., Princeton, N. J. *Geol., Palæo.*

Scott, James G., 123 West Price St., Germantown, Pa. *Crypt. Bot.*

Scott, W. L., 383 Stewart St., Ottawa, Ont., Can. *Orn.*

Scovell, E. L., Assoc. Forester, N. J. *Dept. of Conservation*

and Development, Trenton, N. J.
Seale, Alvin, Supt. Steinart Aquarium, Golden State Park
San Francisco, Calif. *Ichthyol.*
Sealey, Percy, 570 West 182nd St., New York City. *Ent.* ?
Seaman, Mrs. Marianna Perkins, 1424 11th St. N. W.
Washington, D. C. *Bot., Folk Lore.*
Searle, Harriet R., Dept. Marine Invertebrates, Smith
sonian Inst., Washington, D. C. *Isopoda.*
Sears, Paul Bigelow, Asst. Prof. of Bot., Univ. of Neb.,
Lincoln, Nebr. *Virgin Forest Cover, Eastern U. S.,*
Variation in Plants, Plant Galls and Gall Insects, esp.
Rhodites.
Seashore, Carl Emil, Prof. Psychology, State Univ., Iowa
City, Iowa. *Exper. Psychol.*
Seaver, Fred J., Ph.D., Curator, New York Botanical Gar-
den, Bronx, New York City. *Discomycetes.* C. of As-
comycetes.
Seever, Wm. J., 708 N. Laclede Road, Webster Groves, Mo.
Central West Mound Builder and Indian Material.
Will purchase entire collections. Sell or ex. dup.
material.
Segerbloom, Wilhelm, Head of Dept. of Chem., The Philips
Exeter Acad., Exeter, N. H.
Sellards, E. H., Chief. Geol., Bureau of Econ. Geol., Univ.
of Texas, Austin, Texas. *Min., Fossils.* C.
Senecal, Clovis Omer, Geographer and Chief Draftsman,
Geol. Survey, Dept. of Mines, Member of Geographic
Board of Canada, Ottawa, Ont., Can. *Geog., Geol.*
Serviss, Garrett P., 8 Middagh St., Brooklyn, N. Y. *Ast.,*
Geol. ?
Setchell, W. A., Prof. of Bot., Univ. of Calif., Berkeley,
Calif. *Bot., Cryptogams, esp. Algae.* C. Ex.
Seufert, E. C., A.M., 1173 Milwaukee Ave., Chicago,
Ill. *Mic., Biol., Morph., Emb., Anth., Histol.* C.
Severin, H. C., State Entomologist, Brookings, S. Dak.
Ent.
Severin, Henry H. P., Inst. in Ent., Coll. of Agric., Univ.
of Calif., Berkeley, Calif. *Diptera.* C. Ex. or buy
Tryptiidæ. (Fruit flies.)
Seymour, A. B., 20 Divinity Ave., Cambridge, 18, Mass.
Fungi (Parasitic). C. Ex. or buy.
Seymour, F. C., North Amherst, Mass. *Phænerogams.* C.
Ex.
Seymour, Isabel S., Prof. of Biol., Ill. Coll., Jacksonville,
Ill. *Bot.*
Shadle, Albert R., Zool. Lab., Cornell Univ., Ithaca, N. Y.
Invert. Zool. ?
Shafer, George Daniel, East Lansing, Mich. Assoc. Ento-
mologist, Mich. Agric. Coll. Exp. Sta. Economic Ent.

Am now working on physiological effects of contact insecticides. The factors which govern mating in the young honey bee.

Shatesbury, Archie D., A.B., Johns Hopkins Univ., Baltimore, Md. *Apidae—The Honey Bee.*

Shannon, R. C., Dept. of Ent., Cornell Univ., Ithaca, N. Y. *Ent.* ?

Shantz, Dr. Homer LeRoy, Plant Physiologist, Bureau Plant Industry, Washington, D. C. *Vegetation of Great Plains and Great Basin, and of Africa.*

Shapley, Dr. Harlow, Harvard Observatory, Cambridge, Mass. *Bot.*

Sharkey, Mrs. Mary C., 2650 Second St., San Diego, Calif. *Conch.* C. Ex.

Sharples, Philip P., A.B., 17 Battery March, New York City, 91 Lloyd Road, Montclair, N. J. *Chem.*

Shaw, Harlan P., Instr. in Chem. and Min., State Normal School, Bridgewater, Mass.

Shaw, Percy J., Coll. of Agric., Truro, N. S., Can. *Hort.*

Shaw, Reuben T., B.S., A.M., 245 So. 51st St., Philadelphia, Pa. *Bot. and Physiol.*

Shaw, S. Albert, Hampton, N. H. *Gen. Ent., esp. Coleopt. and Diptera.*

Shaw, Wm. T., Prof. of Zool., State Coll., Pullman, Wash. *Mammal Life Histories of Wash.*

Sheak, Wm. H., R. D. 1, Laketon, Wabash Co., Ind. *Birds, Mam., Gen. Zool.*

Shear, Cornelius L., Ph.D., Plant Pathologist, Bureau of Plant Industry, U. S. Dept. of Agric., Washington, D. C. *Crypt.: Fungi.* C. Ex. Desires to ex. Pyrenomyces.

Shearer, Hallock, Farmer, R. D. Route 2, Mt. Carmel, Ill. *Bot., Wild Flowers, Weeds and Grasses.* C. Ex.

Sheldon, John L., Morgantown, W. Va. *Mosses, Liverworts, Fungi, Seed Plants.* C. Ex.

Shelford, Prof. Victor E., 506 W. Iowa St., University, Urbana, Ill. *Insects and fish, Gen. Ecol.* Ex. Maps and photographs of plants and animals.

Shepard, Edward M., Sc.D., LL.D., 1403 Benton Ave., Springfield, Mo. *Econ. Geol., Bot.* C.

Shepard, Harold H., 86 Pleasant St., Amherst, Mass. *Lepid., esp. Hesperiidae of the World.* C. Ex. or buy desired species.

Shepard, Mrs. Harriet E., A.B., 1403 Benton Ave., Springfield, Mo. *Bot.* C.
Trypetidae. (Fruit flies.)

Shepard, John F., 72 Fairmount Ave., New Haven, Conn. *Orn.; Propagation of Wild Game Birds.*

Sheriff, F. A., 119 Myrtle St., Melrose Highlands, Mass.

Coleopt. C. Ex.

Sherman, Franklin, N. C. Dept. Agric., Raleigh, N. C. *Ent., Orn.* C. Ex. Cerambycidæ, Cicindelidæ and Carabidæ.

Sherman, John D., Jr., 132 Primrose Ave., Mount Vernon, N. Y. *Ent.: Coleoptera, Dytiscidae, Bibliog. of Books on Insects and Birds.* See advertisement.

Sherman, Harley B., Inst. in Biol., Dept. of Biol., New York Univ., University Heights, New York, N. Y. *Mammals.*

Sherman, R. S., 3642 Dundas St., Vancouver Heights, B. C., Can. *Ent., Diptera.*

Sherrill, W. E., Haskell, Texas. *Orn.*

Sherwood, William L., 3 East 14th St., New York City. Pres. N. Y. Naturalists' Club. *Fresh Water Fauna and Flora; Biology* (On Editorial Staff, Standard Dictionary, as Assistant Biologist); *Mycology, Batrachians.* ?

Sherzer, W. H., Ph.D., Dept. Nat. Sci., State Normal College, 935 Pearl St., Ypsilanti, Mich. *Geol., Palæo.* Desires to receive and ex. samples of various types of sand.

Shideler, Prof. Wm., Miami Univ., Oxford, Ohio, *Min., Fossils.*

Shillinger, J. E., D.V.M., B.S., M.S., Dept. of Agric., Washington, D. C. *Parasites of domestic animals.*

Shilts, John H., Columbia City, Ind. *Arch., Palæo., Min.*

Shimek, Bohumil, M.S., Prof. Phys. Bot., State Univ. of Iowa, Iowa City, Iowa. ?

Shimer, Porter W., E.M., Ph.D., College Hill, Easton, Pa. *Chem., Metall.*

Shimer, Prof. Hervey Woodburn, Mass. Inst. of Tech.. Boston, Mass. *Shells, Fossil and Recent.* ?

Shinji, G. O., Berkeley, Calif. *Ent.* ?

Shinn, Harold, 3822 Lowell Ave., Chicago, Ill. *Mic. C.*

Shipton, T. D., Hanover, Ill. *Min., Geol., Crystals, Arch., Coins, Curios.* C. of Min. and prehistoric relics. Ex. minerals of lead and zinc for others.

Shiras, Geo., 3rd, Stoneleigh Court, Washington, D. C. Summer, Marquette, Mich. *Photography of American Wild Animals and Birds.* C. 3,000 negatives, daylight and flashlight. Author, when in Congress, of the original migratory bird bill.

Shirling, A. E., Dir. Nat. Sci. and Geog., Teachers Coll., Kansas City, Mo. *Orn., Gen. Nat. Hist.*

Shoemaker, Clarence R., National Museum, Washington, D. C. *Spiders.* C. Ex.

Shoemaker, D. A., In charge Grazing Studies, U. S. Forest Service, Ogden, Utah.

Shoemaker, Ernest, 6916 17th Ave., Brooklyn, N. Y. *Ent.:*

Lepid. and Coleopt. C.
Shoemaker, Frank H., 135 North 14th St., Lincoln, Nebr.
Orn., Ent., (Coleopt.) Photo. Ex. Cicindelidæ and
Carabidæ.
Shoemaker, Henry W., Member State Forest Comm., Etc.
"Restless Oaks," McElhattan, Pa. *Specimens and
skins of N. A. Animals and Birds, now or nearly ex-
tinct.* C. Ex. and buy.
Shoffner, Charles, 114 N. Rolling Road, Springfield, Pa.
Orn., Bot.
Short, Ernest H., Box 173, Rochester, N. Y. *Orn., Ool.,
Arch., Ent., Con., Birds eggs and land shells a specialty.*
C. Ex. Old books on these subjects wanted.
Shreve, Forrest, Ph.D., Desert Laboratory, Tucson, Ariz.
Bot. Ex. Cacti.
Shrosbree, George, Chief Tax., Milwaukee Public Museum,
Milwaukee, Wis. *Mam., Orn.*
Shufeldt, R. W., M.D., 3356 18th St., Washington, D. C.
Social and General Literature.
Shull, A. Franklin, Prof. Zool., Univ. of Mich., Ann Arbor,
Mich. *Genetics.*
Shuul, Charles A., Prof. Plant Physiol., Univ. of Chicago,
Chicago, Ill.
Shull, George Harrison, B.S., Ph.D., Prof. Bot. and Ge-
netics, Princeton Univ. Desires specimens and notes
on plant abnormalities and hybrids, and seeds of
Shepherd's Purse. *Plant Phys., Heredity and Evolu-
tion.* Managing Ed. "Genetics," 60 Jefferson Road,
Princeton, N. J.
Shultz, Charles S., Montclair, N. J. *Mic., Gen. Biol.* C.
Shultz, Clifford Glenmore, 30 North Mountain Ave., Mont-
clair, N. J. *Mic. C. of Slides.*
Shute, M. A., 109 So. 4th St., Minneapolis, Minn. *Ent.* ?
Shutt, Frank T., M.A., D.Sc., F.I.C., F.C.S., Central Exper.
Farm, Asst. Dir. and Dominion Chem., Ottawa, Can.
Min., Chem., Mic., Photog.
Sibley, Chas. K., Instructor in Limnology, Cornell Univ.,
Ithaca, N. Y.
Sifton, Harold B., Asst. Prof. Dept. of Bot., Univ. of To-
ronto, Toronto, Can. *Anat., Ecol.*
Silver, James, 710 Interstate Trust Bld., Denver, Colo. *Biol.*
Silvester, Charles F., Cur. of Zool. Museum, Princeton,
N. J. ?
Sim, Mrs. Robert J., Bureau of Plant Industry, Harrisburg,
Pa.
Sim, Robert J., Bureau of Plant Industry, Harrisburg, Pa.
Sim, Robert, Jefferson, Ohio. *Artist and Taxidermist.*
Simmons, Geo. Finlay, Cur. Orn., Cleveland Mus. Nat.
Hist., Cleveland, Ohio. *Orn.*

Simonds, B. F., 254 Pike, Long Beach, Calif. *Ichthyol.*
Simonds, O. C., 1101 Buena Ave., Chicago, Ill. *Bot.*
Simons, John F., B.H., 94 Mass. Ave., Springfield, Mass.
Ferns, Trees, Shrubs, Wild and Garden Flowers.
Simonton, L., 229 So. Broadway, Lebanon, Ohio. *Lower Sil., Fossils, Indian and Mound Builders' Relics.* Ex. for other L. S. Fossils.
Simpson, Charles T., Little River, Fla. *Naiades, W. I. L. and F. W. Mollusks, Subtropical Horticulture. Trop. Bot.*, Coll. of Shells.
Simpson, D. W., 30 Pine St., New York City. *Ent.* ?
Simpson, E. E., 203 East Fourth St., Lexington, Ky. *Orn.*
Simpson, George B., Game Warden, Lake Cowichan, B. C., Can. *Alpine plants and birds.*
Simpson, Howard E., Prof. of Geog. Geol., and Underground Waters, Univ. of No. Dak., Grand Forks, N. D. *Physiography, Min.*
Sinclair, James, P. O. Box 415, Los Angeles, Calif. *Lepid. C.* ?
Sinclair, Dr. Wm. J., Princeton Univ., Princeton, N. J. *Palao.*
Sitler, Ida, Prof. of Zool., Hollins Coll., Hollins, Va. C. Ex.
Skeels, Homer C., 210 Holly Ave., Takoma Park, D. C. (U. S. Dept. of Agric.) *Bot. Seeds.* C. Ex. Have Herbarium of 3,000 to 3,500 plants for sale.
Skinner, Alason, Cur. of Anthropology, Public Mus., Milwaukee, Wis. *Arch., Eth.*
Skinner, Henry, M.D., Curator, Museum, 1900 Race St., Phila., Pa. *Ent.*
Skinner, Milton P., Roosevelt Field Naturalist, The Roosevelt Wild Life Forest Exp. Sta., New York State Coll. of Forestry, Syracuse, N. Y. *Birds, Mam., Yellowstone Nat. Park.*
Sleight, Chas. E., Ramsey, N. J. *Ent.* ?
Sleuther, Frank G., 1705 N. Fremont St., Chicago, Ill. *Lepid.* ?
Slevin, Joseph R., Cal. Actd. Sci., San Francisco, Calif. *Herpet.* ?
Slevin, L. S., Carmel, Calif. *Ent.*
Slcom, Arthur W., Walker Museum, Univ. of Chicago, Chicago, Ill. *Palaeo. (Invert.)*
Slcom, Léon, 1008 Wawaset St., Wilmington, Del. *Ent.*
Slocum, Prof. Frederick Van Vleck Observatory, Middle-towh, Conn.
Slosson, Mrs. Annie Trumbull, 36 Gramercy Park, New York, N. Y. *Bot., Ent.*
Small, H. B., M.D., 150 Laurier Ave. W., Ottawa, Ont., Can. *Bot.*

Small, John K., Cur. of the Mus., New York Botanical Garden, Bronx Park, New York, N. Y. *Bot.* ?

Smallwood, W. M., Prof. of Comp. Zoology, Syracuse Univ., Syracuse, N. Y. *Morphol., Emb., Neurology.* ?

Smiley, F. B., 2328 Santa Clara Ave., Alameda, Calif. *Ent.* ?

Smith, Allyn G., Univ. of Cal., Extension Div., 1825 Hopkins St., Berkeley, Calif. *Conch.* C.

Smith, Alva J., Emporia, Kans. *Geol., Min., Mic.* C. ?

Smith, Burnet, Ph.D., Syracuse Univ., Syracuse, N. Y. *Palao.*

Smith, Charles Henry, (M.E., Cornell) Editor, School Science and Mathematics, Asst. Principal Hyde Park High School, 5517 Cornell Ave., Chicago, Ill.

Smith, Christianna, Asst. Prof. Zool. Mt. Holyoke College, South Hadley, Mass. *Zool.* C. Ex.

Smith, D. D., Head, Sci. Dept., East Ky. State Normal and Teachers Coll., Richmond, Ky. *Bot., Orn., Nature Study, Mosses, Liverworts, Mushrooms.* Have many photos of mushrooms, etc., for sale.

Smith, Edgar J., Sherborn, Mass. *Lepid. C. N. A. Hymenoptera, Bombus, Vespa and Xylocopa.* C. Lepid.

Smith, Edward S. C., Inst. at Union Coll., Dept. of Geol., Schenectady, N. Y. *Struct. Geol., Petrography.*

Smith, E. R., Assoc. Prof. Geol., De Pauw Univ., 628 E. Walnut St., Greencastle, Ind. *Geol., Conch.* C. Buy.

Smith, Ernest E., M.D., 50 E. 41st St., New York, N. Y. *Chem., Pathol., Bacteriol., Biol.* C. Ex. Pathological and bacteriological specimens.

Smith, Dr. Erwin F., Pathologist in charge of Laboratory of Plant Pathology, Bureau of Plant Industry, Dept. of Agric., Washington, D. C. *Bacterial Diseases of Plants.* Ex. separates of all publications relating to bacteriology; desires material from all parts of the world illustrating bacterial diseases of plants.

Smith, Eugene A., Ph.D., Prof. Emer. Min. and Geol., Univ. of Ala., State Geologist, P. O. University, Tuscaloosa Co., Ala. Ex.

Smith, Frances Grace, Assoc. Prof. of Bot., Smith Coll., Northampton, Mass. *Bot. Morph. of Cycads.*

Smith, Frank, Prof. Zool., Univ. of Ill., Urbana, Ill. *Oligochaeta, Fresh Water Sponges.*

Smith, Frederic F., B.S., M.S., Prof. of Biol., Buena Vista Coll., Storm Lake, Iowa. *Echinoid pedicellariae and sphæredia.*

Smith, G. A., 5143 Liberty Ave., Pittsburgh, Pa. *Ent.* ?

Smith, Geo. D., State Plant Board, Gainesville, Fla. *Ent.*

Smith, George D., State Normal School, Richmond, Ky. *Nat.*

Sci.

Smith, Geo. Otis, Ph.D., Director, U. S. Geol. Survey, Washington, D. C. *Geol., Lithol., Min. C.*

Smith, Harlan I., Victoria Memorial Mus., Nat. Mus. of Canada, Ottawa, Can. *Museum Methods.*

Smith, Harry Scott, Prof. of Ent., Univ. of Calif. Citrus Exp. Sta., Riverside, Calif. *Parasitic and predaceous insects, Hymenopt.*

Smith, Hugh M., M.D., LL.D., 1209 M St., Washington, D. C. *Ichthyol.*

Smith, Huron H., Public Museum, Cur. Botany, Milwaukee, Wis. *Econ. Bot. C. Ex.* Formerly Asst. Cur. Bot. Field Museum, Chicago. (1907-1915).

Smith, James Perrin, M.A., Ph.D., Prof. Palæo., Stanford Univ., Calif. *Invert. Palæo., Con., Min. Ex.*

Smith, Jennie B., Teacher, 632 Meldrum St., Detroit, Mich. *Nature Study: Trees, Insects and Wild Life.*

Smith, Capt. John Donnell, 505 Park Ave., Baltimore, Md. *Trop. Am. Bot. C.*

Smith, Leland S., Dep. Supervisor, Modoc National Forest, Alturas, Calif.

Smith, L. W., 38 Laurel Ave., Wellesley Hills, Mass. *Econ. Biol., Orn.*

Smith, Marion Russell, Asst. Ent., Ant Specialist, Miss. State Plant Board, A. & M., College, Miss. *Ants and fossorial wasps.* C. Ex. and buy. Will make determinations.

Smith, Oliver F., Taxidermist, Mus. of Hist. Sci. and Art, Exposition Park, Los Angeles, Calif.

Smith, Maxwell, Hartsdale, N. Y. *Moll. C. Ex.* Land moll.

Smith, Oberlin, Bridgeton, N. J. *Phys., Elect.*

Smith, C. O., Research Assoc. in Plant Pathol., Graduate Sch. of Tropical Agric. and Citrus Expr. Sta., Riverside, Calif.

Smith, Owen H., 702 Fulton St., Brooklyn, N. Y. *Ent. ?*

Smith, Philip S., Acting Director, U. S. Geol. Survey, Washington, D. C.

Smith, R., Agric. Coll., Clemson College, S. C. *Hymen. ?*

Smith, Roy B., 36 Bromfield St., Boston, Mass. *Butterflies* in quantity for butterfly art work. Will buy Morphos and other butterflies subject to inspection.

Smith, Richard W., Asst. Geologist, Div. of Geol., Nashville, Tenn. *Geol.*

Smith, Roy H., 183 N. Prospect St., Kent, Ohio. *Birds and bird banding.*

Smith, Thomas, 124 Howe St., Methuen, Mass. *.Orn., Zool., Lepid. C. Ex. or buy "bird's spine."*

Smith, Walter B., 259 Essex St., Bangor, Me. *Arch.* Will

buy good objects from Maine and Maritime Provinces.
Smith, Wm. E., Box 167, Bay Shore Rd., South Chatham,
Mass. *Orn., Ent., Bot.*

Smith, W. P., Wells River, Vt. *Orn., Bot.*

Smith, Prof. W. W., Lafayette, Ind. *Orn.*

Smyth, Ellison A., Blacksburg, Va. *Ent.* ?

Smyth, Dr. L. C. R., (Mrs. Bernard B.) Ottawa Univ.,
Ottawa, Kans, *Zool., Biol., Ent., Bot.*

Snavely, Remus, Harlingen, Cameron Co., Texas. *Orn.* ?

Snell, Walter H., Asst. Prof. of Bot., Brown Univ., Prov-
idence R. I. *Forest Pathol. and Forestry.*

Snow, Julia W., Ph.D., Assoc. Prof. of Bot., Smith College,

35 Bedford Terrace, Northampton, Mass. *Alg.*

Snyder, Anna Mary, Southern High School for Girls, Phila-
delphia, Pa. *Biol.*

Snyder, Dr. F. D., F.R.G.S., Ashtabula, Ohio. *Eth., Zool.*
C. Ex.

Calif. In charge Vert. Coll. of the Dept. of Zool., *Ich-
thyology.*

Snyder, L. L., Royal Ontario Mus. of Zool., Toronto, Ont.,
Can. *Orn., Mam.*

Snyder, Thomas Elliott, Forest Ent., Bureau of Ent., Dept.
of Agric., Washington, D. C. *Isoptera, Termites
(white ants).* *Ex.*

Snyred, Will Edwin, 309 De Kalb St., Beaver Dam, Wis.
*Coleopt., Mollusca, Hemiptera, Mounted Birds and
Mammals.*

Soars, Antone J., Box 276, Hayward, Calif. *Bot., Orn.,
Bird and flower lore.*

Sollmann, T., M.D., Prof. Pharmacol., Western Reserve Med.
Coll., Cleveland, Ohio. *Pharmacol., Materia Medica,
Physiol.*

Soper, J. Dewey, 10527 85th Ave., Edmonton, Alta., Can.
Orn., Mam.

Sornberger, J. D., Rowley, Mass. Offers ornithological
photographs, rare sets from Labrador, remains of the
great Auk, or cash for eggs of *Bombycidæ*, etc. *Sat-
urnidæ.* *C. Ex.*

South, Lillian H., State Board of Health, Louisville, Ky.
Bacteriology.

Southard, Charles Zibeon, Box 153, Groton, Mass. *Con-
servation of Wild Life, Game Fish, Birds and Animals,
esp. conservation of game fish.*

Southern Biol. Supply Co., Nat. Hist. Bldg., New Orleans,
La. *Bot., Zool., Ent.* Preserved specimens of all types
for Lab. or Mus. Living material for Physiol. Amœba
cultures.

Sowter, T. W. E., Aylmer, East, P. Q., Can. *Indian Arch.*

of East. Can. C. Ex.
Spalding, Tom, R. D. 1, Box 274, Provo, Utah. Collect in any order on request. Cash only. Utah *Catocala* and *ova*.
Spangler, R. C. S., Assoc. Prof. of Bot., Morgantown, W. Va. *Bot.*
Sparks, Mrs. Sue D., Lexington, Ky. *Ent.*
Sparks, V. L., Box 867, Skagway, Alaska.
Spaulding, Miss Nina G., Jaffrey, N. H. *Ent.*
Spaulding, Dr. Perley, U. S. Dept. of Agric., Washington, D. C. *Publications on Forest Tree Diseases, Orn. C. Ex. and buy.*
Spaulding, Prof. M. H., Mont. Agric. Coll., Bozeman, Mont. *Zool.*
Speck, Frank G., Asst. Prof. Anth., Univ. of Penn., Philadelphia, Pa. *Herpet., Gen. Nat. Hist.*
Speechly, Harry M., M.D., 232 Home St., Winnipeg, Man., Can. *Gen. Nat. Hist.*
Speer, L. W., Sac City, Iowa. *Tax., Indian skulls and relics, foreign birds wanted.* Cases built for Museums, Schools and Collectors. *C. Ex. and buy.*
Spencer, A. P., Vice Div., Fla. Expt. Sta., Gainesville, Fla. *Plant Economics, Hort., Citrus.*
Spencer, Arthur C., Ph.D., U. S. Geol. Survey, Washington, D. C. *Ore Deposits.*
Spencer, G. J., O.A.C., Guelph, Ont., Can. *Ent.*
Spencer, Mary F., 2094 Julian Ave., San Diego, Calif. *Bot.*
Spiker, Charles, New Hampton, Iowa. *Orn.*
Spillman, W. J., D.Sc., U. S. Dept. of Agric., Washington, D. C. *Genetics.*
Spragg, Frank A., Plant Breeder, 926 Gr. River Ave., East Lansing, Mich. *Genetics, Plant Breeding and Genetic expectations.* Ex. seeds of field crops for those developed by other breeders.
Springer, Frank, Smithsonian, Washington, D. C. *Palæo.* ?
Sprunt, Alex., Jr., Asst. (in charge) Orn. Dept., Charleston Mus., 92 So. Bay St., Charleston, S. C. *Mus. work and Orn. C. Ex. and buy.*
Spuler, Anthony, Asst. Ent., Wash. State Coll., Pullman, Wash. *Diptera.*
Spurgeon, Charles H., Prof. Biol., Drury College and State Bacteriologist, 1330 Washington Ave., Springfield, Mo. *Vert. Emb.* ?
Spurr, Josiah Edw., Bullitt Bldg., Philadelphia, Pa. *Geol.* ?
Spurway, D., Box 725, Nelson, B. C., Can. *Lepid., Dipt., Hymen., Coleopt.*
Squire, E. E. P., 3 Cottage Place, White Plains, N. Y. *Coleoptera, esp. aquatic forms.*

Stadmueller, F. H., Elmwood, Conn. *Min. C. Ex.* ?

Stafford, E. W., Assoc. Prof. Ent. & Zool., Miss. Agric. Coll., A. & M. College, Miss. *Acalyptdate Muscoidea, Trematodes.*

Stakman, E. C., Prof. of Plant Pathol., Univ. of Minn., Pathologist and agent in Cereal Investigations, U. S. Dept. of Agric., Univ. Farm, St. Paul, Minn. *Plant Pathol., Mycol.*

Stam, L. K., Long Beach, Fla. *Shells of all kinds.* C. Ex. and buy.

Standish, Clement E., 5607 University Ave., Chicago, Ill. *Ent.* ?

Standley, P. C., Assoc. Cur. Div. Plants, Nat. Museum, Washington, D. C. *Bot.*

Stanfield, S. W., A.B., Formerly Dept. of Biol., Southwest Texas State Normal School, San Moros, Texas. *Bot., Zool., Geol., Physiography.*

Stanford, E. E. B.S., M.S., Prof. Bot. and Pharmacognasy. School of Pharm., Western Reserve Univ., Cleveland, Ohio.

Stanton, Timothy W., National Mus., Washington, D. C. *Invert. Palaeo., Strat. Geol.*

Stark, Edwin Chapin, Asst. Prof. Dept. of Relationships and Zool., Box 26, Stanford Univ., Calif. *Ichth., and Osteol. of Fishes.*

Stark, Orton K., Asst. in Bot., 308 Nat. Hist. Bldg., Univ. of Ill., Urbana, Ill. *Taxonomy.*

Starr, Anna M., Assoc. Prof. in Bot., Mt. Holyoke Coll., So. Hadley, Mass. *Ecol., Anat.* C.

Stauffer, Clinton R., Ph.D., Prof. of Geol., Univ. of Minn., Minneapolis, Minn. *Upper Cambrian and Ordovician fossils to ex.*

Stearns, Louis A., Alma College, Alma, Mich. *Ent.* ?

Stebbins, Fannie A., Supervisor of Nature Study, 31 Ely Ave., West Springfield, Mass. *Geol., Orn.* C. of galls.

Stebinger, Eugene, U. S. Geol. Survey, Washington, D. C. *Geol.* ?

Stechert, G. E. & Co., 31-33 East 10th St., New York, N. Y. C. *Buy and sell all scientific books and periodicals.*

Steckbeck, Walter, Ph.D., Botanical Hall, Univ. of Pa., Philadelphia, Pa. *Bot.*

Steele, Dewey, Dept. of Genetics, Univ. of Wisc., Madison, Wis.

Steele, Edw. S., 1522 Q St., Washington, D. C. *Bot.* ?

Steele, F. C., 94 Kent St., Hartford, Conn. *Ent.* ?

Steffen, Geo. J. C., c/o Browning, King & Co., Milwaukee, Wisc. *Ent.*

Steiger, George, Chief Chemist, U. S. Geol. Survey, Washington, D. C. *Chem., Geol.*

Steigerwalt, H. J., 130 E. King St., Lancaster, Pa. *Stamps.*

Stenger, Leonhard, Head Cur. Dept. Biol., U. S. Nat. Mus., Washington, D. C. *Mam., Orn., Herpet., Geog. Dist.*

Stengel, F., Box 495, Marion, Ohio. *Birds and small mammals.*

Stephens, T. C., Morningside College, Sioux City, Iowa. *Orn., Mol., Spiders, Shells.* C. Ex.

Stephenson, Lyle, 35 West 52nd St., Kansas City, Mo. *Coleopt.* C. Ex.

Sterki, Victor, M.D., New Philadelphia, Ohio. *L. and F. W. Mollusca.* ?

Sternberg, Charles H., A.M., 4046 Arizona St., San Diego, Calif. *Fossil vertebrates and invertebrates.* Fossils for sale.

Sternberg, Chas. M., Victoria Mem. Mus., Ottawa, Ont., Can. *Vert. Paleo.*

Sternitzky, R. F., 201 Charter Oak Ave., San Francisco, Calif. *Collector of moths and butterflies.* Will ex. other desiderata for Lepid.

Stevens, Albert L., 166 So. Angell St., Providence, R. I.

Stevens, Frank Lincoln, Prof. Plant Pathol., Univ. of Ill., Urbana, Ill. *Fungi.* C. Ex.
Min. C. Ex.

Stevens, George E., 131 Hanover St., Claremont, N. H. *Min.* ?

Stevens, Neil E., Ph.D., Bureau Plant Industry, Washington, D. C. *Pathol.*

Stevens, O. A., Botanist, Agricultural College, N. D. *Flowering plants, weeds, bees and wasps, birds.* Ex. bees and wasps.

Stevenson, Hugh A., M.D., C.M., M.C.P. and S.O., 391 Dundas St., London, Ont., Can. *Mic., Herpetol., Bacteriol., Pathol., Histol.* C. Ex. ?

Stevenson, John A., Federal Hort. Board, Washington, D.C. *Mycology, Perisporiaceata.* C. Ex.

Stevenson, William C., Jr., 1525 Green St., Philadelphia, Pa. *Fungi.* C. ?

Stewart, Douglas, Director, Carnegie Museum, Pittsburgh, Pa. *Min.*

Stewart, Miss Grace Anne, Ph.D., Dept. of Geol., Univ. of Ohio, Columbus, Ohio. *Invert. Paleo.*

Stewart, John A. M., Inst. Bot., Univ. of Pittsburgh, Pa., 339 East End Ave., Beaver, Pa. *Bot.* C. Ex.

Stewart, Norman, Ph.D., Prof. of Biology, Bucknell Univ., Lewisburg, Pa.

St. George, R. C., East Falls Church, Va. *Insects affecting crude forest products.*

St. John, Charles E., Astronomer, Mt. Wilson Observatory, Pasadena, Calif. *Ast., Orn.*

St. John, Harold, A.B., A.M., Ph.D., Dept. of Bot., State Coll. of Wash., Pullman, Wash. *Tax., Ecol. C. Ex.*

Stiles, Charles F., Box 37, Stillwater, Okla. *Apiarist and Queen Breeder.*

Stiles, Charles W., Ph.D., LL.D., D.Sc., M.D., Prof. Zool., U. S. Public Health Service, Sec. Int. Comm. on Zool. Nomenclature, Washington, D. C. *Parasites.*

Stillman, Albert E., 4051 First St., San Diego, Cal. *Birds. C.*

Stillman, Wm. O., A.M., M.D., 287 State St., Albany, N. Y. *Phys., Elec., Gen. Biol., Emb., Anth., Histol.*

Stilwell, L. W., Deadwood, S. Dak. Wholesale and retail dealer in Minerals, Fossils, Indian Relics, both Buck-skin and Stone; Western Gem Arrowpoints a special branch. *Bot., Palaeo., Geol., Min., Arch., Vert., Tax. Supply curio dealers with Indian Beadwork and Baskets, and Jewelers with Elk Teeth and Gems, rough and cut.*

Stoddard, E. M., Conn. Agric. Expr. Sta., New Haven, Conn. *Ent.*

Stoddard, Herbert L., Assoc. Taxidermist, Public Museum, Milwaukee, Wis. *Orn.*

Stöhr, Rev. L. M., St. Alexandre, Ironside, P. Q., Can. *Ent.: Libelulidae.*

Stokes, John F. G., Bishop Museum, Honolulu, T. H. *Ethnol.*

Stokey, Alm G., Prof. of Bot., Mt. Holyoke Coll., So. Hadley, Mass. *Pteridophytes. C. Ex. and buy.*

Stoller, Jas, H., Prof. of Geol., Union Coll., Schenectady, N. Y. *Glacial Geology.*

Stone, C. F., Branchport, Yates Co., N. Y. *Orn., Ool. C. ?*

Stone, George E., Formerly Prof. of Bot., Mass. Agric. Coll., Amherst, Mass. *Bot.*

Stone, Marjorie W., Asst. & Cur., Park Mus., Providence, R. I. *Bot. C. Ex.*

Stone, Ralph W., Asst. State Geol., Pa. *Geol. Surv., Harrisburg, Pa.*

Stone, Wittmer, Sc.D., Curator, Acad. of Nat. Sciences, Philadelphia, Pa. Editor of "The Auk." *Mam., Orn. with special reference to Geog. Dist. C.*

Stoner, Dayton, B.A., M.S., Ph.D., Asst. Prof. Zool., State Univ. Iowa, 602 Summit St., Iowa City, Iowa. *Pentatomidea and other Heteroptera. C. Ex. Will buy Pentatomidea.*

Storrer, James, Instructor in Geology, Cornell Univ., Ithaca, N. Y. Fossils in general. C. of fossils. Ex.

Stover, Ernest L., Dept. of Bot., Ohio State Univ., Columbus, Ohio.

Stover, Tracy Irwin, Asst. Prof. of Zool., Univ. of Cal.

Farm, Davis, Calif. *Vert. Zool., Life Histories, Ecol.*
Stose, Geo. W., U. S. Geol. Survey, Washington, D. C. *Geol., Min., Crystall.* ?

Stover, Wilmer G., Prof. Bot., Ohio State Univ., Columbus, Ohio. *Plant Pathol., Mycol.*

Stoun, Paul A., Instructor in Geology, Univ. of Texas, Austin, Texas. *Geol.*

Stowell, Willard A., 140 Kent St., Trenton, N. J. *Bot., Ferns.* ?

Strangman, Wm. F., D.M.D., 208 Essex St., Salem, Mass. *Biol.*

Strauss, Abraham, Ins. Univ. of Maine, Orono, Me. *Bot.* ?

Streator, George J., Rosedale Seaside Ave., Santa Cruz, Calif. *Plant Breeder, Roses.*

Strecker, John Kern, Cur. Mus., Baylor Univ., Waco, Tex. *Herpet., Orn., Mam., Conch.* C. Ex.

Strickland, E. H., Prof. Ent., Univ. of Alberta, Edmonton, Alta., Can. *Ent.*

Stroh, Luther R., Jacob's hotel, Tulsa, Okla. *Geol.*

Strohbeen, John, Pennsylvania Ave., Santa Cruz, Calif. *Lepid.*

Strong, A. M., 1029 Stock Exchange Bldg., Los Angeles, Calif. *West Am. Shells, living and fossil.* C. Ex.

Struthers, Rev. Alfred L., 6 Cottage St., West Brookfield, Mass. *Orn.. Bot.*

Stuart, Walter M., Marshall, Mich. *Indian relics, seeds, and mail order rubber stamps.* Circulars free.

Stuck, Walter, 603 W. Wash. Ave., Jonesboro, Ark. *Lepid. C.* ?, *otic butterflies.* C. Ex. Buy Morphos.

Studio, The Butterfly, Artwares inserted with butterflies, 103 Wagner St., Wagner Heights, Savannah, Ga. *Eru-*
Stull, David C., Provincetown, Mass. Marine Curios of all kinds. Sell or ex. Correspondence desired.

Stunkard, Horace W., Ph.D., N. Y. Univ. Heights, New York City. *Animal Parasites. Zool.* C.

Stupart, Sir R. Frederick, F.R.S., Canada, Dir. of the Meteo. Service of Canada, Toronto, Ont., Can. *Meteo., Terr. Magn., Phys.* Offers Meteorological Reports of Canada.

Sturgis, Wm. C., A.M., Ph.D., 281 Fourth Ave., New York, N. Y. *Fungi, Myxomycetes.* C. Ex.

Sturkie, D. G., Asst. Prof. of Agronomy, Clemson College, S. C. *Birds and plant life.*

Sturtevant, Dr. A. H., Dept. of Zool., Columbia Univ., New York, N. Y.

Sudworth, George B., A.B., Dendrologist, Forest Service, U. S. Dept. of Agric., Washington, D. C.

Suffield, J. Devereux, 516 McIntyre Blk., Winnipeg, Man.,

Can. Ent. Might buy tropical butterflies.
Suksdorf, Wilhelm N., Bingen, Klickitat Co., Wash. Bot. ? C.
Sulgrove, Leslie, Helena, Lewis & Clark Co., Mont. Ent. Lepid., Coleopt. C. Ex. cocoons, native for foreign and photographs.
Sullivan, K. C., Asst. Prof. of Ent., Whitten Hall, Columbia, Mo. Ent., Orn.
Sumner, Frederick A., Pres. Talladega Coll., 384 W. Battle St., Talladega, Ala. Coll. of Mus.
Sumner, Francis B., Biologist, Scripps Institution, La Jolla, Calif. Heredity and Geog. variation in rodents.
Suppan, Lee, 2109a Russell Ave., St. Louis, Mo. Geol.
Surface, H. A., D.Sc., Mechanicsburg, Pa. Palaeo., Zool., Ent., Orn., Mam. ?
Sutton, George Miksch, Carnegie Museum, Pittsburgh, Pa. Orn., Painter of birds. Arctic-Am. fauna, birds of Texas, British Honduras and Western Pa.
Suydan, Miss Anna B., '41 Caroline St., Rochester, N. Y. Ferns and Flowering Plants. C. Ex.
Svenson, Henry K., A.M., Biol. Dept., Union College, Schenectady, N. Y. Plant Distribution, Genetics.
Swain, A. F., Citrus Expr. Sta., Riverside, Calif. Ent. ?
Swain, John Merton, Farmington, Maine. Orn., Ool., C. Birds, nests and eggs. Pres. Farmington Bird Club.
Swaine, Dr. J. M., Dept. of Agric., Ottawa, Ont., Can. Coleopt.
Swaine, Seorim, Rochester, N. H. Violin maker, Desmids, Diatoms, Mic., Min. C.
Swales, Bradshaw Hall, National Mus., Washington, D. C. Orn. C.
Swanton, John R., Ethnologist, Bureau of Am. Ethnology,
Swarth, H. S., Mus. of Vert. Zool., Univ. of Calif., Berkeley, Calif.
Swartz, Charles Kephart, Ph.D., Collegiate Prof. Geol. and Palaeo., Johns Hopkins Univ., Baltimore, Md. Palaeozoic Stratigraphy.
Sweet, Dana W., Phillips, Maine. Bot., Orn. Ex. seeds of wild species.
Sweetser, Albert R., 723 Alder St., Univ. of Ore., Eugene, Nebr. Mam., Orn., Anthropods.
Swenson, Sven, 18th Ave. S. & 46th St., Minneapolis, Minn. Ent. ?
Ore. Bot.
Swenk, Myron H., Prof. Econ. Ent., Univ. of Nebr., Lincoln,
Swett, L. W., 24 Muzzey St., Lexington, Mass. Ent.: Geometridæ.
Swezey, G. D., A.M., Univ. of Neb., Lincoln, Nebr. Meteo.,

Ast. C. Ex.

Swezey, O. H., Ent., Hawaiian Sugar Planters Expr. Sta., Consulting Ent., Bishop Mus., Honolulu, T. H. *Lepid.* *Life hist. of Hawaiian insects; insect parasites.*

Swift, Dr. H. H., Pittsford, Vt. *Nature Photog., esp. ferns.* Have full set of photos and slides of ferns of N. E. North Am., esp. the rare ones.

Taff, Jos. A., Southern Pacific Co., 79 New Montgomery St., San Francisco, Calif. *Geol.*

Talbot, Mignon, Ph.D., Prof. of Geol., Mount Holyoke College, South Hadley, Mass. *Palaeozoic Invertebrate Fossils.*

Talbot, M. W., U. S. Bureau of Plant Industry, Albuquerque, N. Mex.

Tams, W. H. T., Cur. Lepid., British Mus., London, Ont., Can.

Tate, G. H. H., Tabor, N. J. *Ent., Mammals.*

Tatnall, Robert R., 805 Franklin St., Wilmington, Del. *Bot.*

Taussig, F. W., Prof. Political Economy, Harvard Univ., Cambridge, Mass.

Taverner, P. A., Curator of Birds, Victoria Mem. Museum, Ottawa, Ont., Can. *Orn.*
Smithsonian Inst., Washington, D. C. *History and Social Organization of American Indians.*

Taylor, Clarence F., Wittenburg, Colchester Co., N. S., Can. *Tax.* Buy or sell.

Taylor, E. P., Dir. Agric. Extension Service, Univ. of Ariz., Tucson, Ariz. *Econ. Ent.* ?

Taylor, Dr. Edward W., 527 Beacon St., Boston, Mass. *Neurol.*

Taylor, Frank B., 420 Downing Ave., Fort Wayne, Ind. *Geol., Ast.*

Taylor, Herbert, 408 Clifton Ave., Newark, N. J. *Ent.:* *Lepid. (chiefly Rhopalocera), esp. Limenitidi.*

Taylor, L. E., Kelowna, B. C., Can. *Ent.* ?

Taylor, Minnie W., U. S. Dept. Agric., Bureau of Plant Industry, Washington, D. C. *Forest Pathol.*

Taylor, Leland H., Asst. Prof. of Zool., W. Va. Univ., Morgantown, W. Va. *Hymenoptera.*

Taylor, Norman, Curator of Plants, Brooklyn Botanic Garden, Brooklyn, N. Y. *Phytogeography of N. Y. and Vicinity.*

Taylor, Rose M., Inst. in Bot., Mich. Agric. Coll., Lansing, Mich. *Bot.* ?

Taylor, W., 2301 Trinity St., Vancouver, B. C., Can. *Arctic and general flora, and small mammals.* C. Ex. or sell.

Taylor, Walter F., Prof. Bact. & Hygiene, Wake Forest

Coll., School of Med., Wake Forest, N. C.

Taylor, Walter P., Asst. Biologist, Biological Survey, U. S. Dept. of Agric., Univ. Sta., Tucson, Ariz. *Mam., Orn., Ecol.*

Taylor, Warner, Assoc. Prof., Univ. of Wis., Madison, Wis. *Orn. Desires literature on Orn.*

Taylor, William A., A.M., Pomologist, U. S. Dept. of Agric., Washington, D. C. *Pomology, Bot., Hort.*

Taylor, Wm. R., Asst. Prof. of Bot., Botanical Laboratory, Univ. of Pa., Phila., Pa. *Algæ, Cytology, Bryophytes. Ex. Algae.*

Tedesche, Leon G., A.B., M.D., Prof. Bact. and Pathol., Eclectic Med. Coll., 630 W. 6th St., Cincinnati, Ohio. *Preventive Med. and Hyg. Bact., Normal and Path. Histol. Philately, Mic.*

Teeters, Wilber J., M.S., Ph.C., Prof. of Pharmacy and pharmacognosy, Dir. of Pharmaceutical Laboratory, and Dean of the College of Pharm., 1895 West Side. (Chem. Lab.) Iowa City, Iowa. *Chem., Bot.*

Temple, Adelbert, R. D. 82, Hopkinton, Mass. *Orn., Ool.*

Temple, Charles E., Prof. Plant Pathol., Univ. of Md., College Park, Md. *Plant diseases.*

Temple, Charles Edward, Prof. of Bot., Univ. of Idaho and State Botanist, Moscow, Ida. *Plant Pathol. and Physiol. C.*

Terrell, Clyde B., 83 Monument Sq., Oshkosh, Wis. *Plants suitable for attracting fish and game.* Specialist on making places attractive to birds, game and fish. C. Ex.

Terry, Dr. Robert J., 9 Lenox Place, St. Louis, Mo. *Orn.*

Thacher, Arthur, E.M., Security Bldg., St. Louis, Mo. *Geol., Metall.*

Thackray, Geo. E., Bethlehem Steel Co., Bethlehem, Pa. *Civil, Mech. and Metallurgical Engineering.*

Thaxter, Roland, Prof. Emer. of Crypt. Bot., 7 Scott St., Cambridge, Mass. *Fungi, esp. parasites of insects.* Buy exotic or Southern microcoleoptera.

Thayer, John E., George Hill Rd., Lancaster, Mass. *Orn.* ?

Thom, Dr. W. T., Jr., U. S. Geol. Survey, Washington, D. C. *Stratigraphic, Structural and Economic Geol.*

Thomas, A. O., Univ. of Iowa, Iowa City, Iowa. *Palæo., Devonian. C.* ?

Thomas, Frank L., Chief Ent., Expr. Sta., State Ent. of Texas, A. & M. College, Tex. *Research work in Econ. Ent. C. Ex.*

Thomas, Roy C., Experiment Station, Wooster, Ohio. *Plant Pathol.*

Thompson, Bertha E., M.A., Inst. Bot., in Mich. Agric. Coll.,

Lansing, Mich. *Bot.* ?
Thompson, B. G., 619 S. 16th St., Corvallis, Ore.
Thompson, Caroline Burling, Ph.D., Wellesley Coll., Wellesley, Mass. *Zool.* ?
Thompson, Crystal, Curator, The Zool. Collections, Amherst College, Amherst, Mass. *Museums, Herpetol., Ecol., Geog. Dist.*
Thompson, Dr. E. C., 76 Poplar St., Roslindale, Mass. *Ent.*
Thompson, Maurice de Kay, Ph.D., Assoc. Prof. Electrochemistry, Mass. Inst. of Technology, Cambridge, Mass.
Thompson, Stuart, Brigdens, Ltd., Richmond St. West, Toronto, Can. *Orn.*
Thompson, Will F., State Fisheries Laboratory, San Pedro, Cal.
Thompson, Wm. Cutler, 5332 Wayne Ave., Philadelphia, Pa. *Coleopt.* Ex. ?
Thomson, James Claude, Asst. in Chem., Rutgers, Coll., New Brunswick, N. J. *Min.* C. Ex. ?
Thomson, Prof. R. B., Toronto Univ., Toronto, Ont., Can. *Orn.*
Thornber, H., Dept. of Agric., Victoria, B. C., Can. *Ent.* ?
Thornber, John James, Univ. of Ariz., Tucson, Ariz. *Anth., Peterodophyta.* Am especially interested in grasses and grass-like plants. Have Ariz. plants for exchange.
Thornburg, Chas. Lewis, Prof. Math. and Ast., Lehigh Univ., Bethlehem, Pa.
Thornburg, Thos. E., Ashland, Ohio. *Coleopt., Lepid.* Desirable specimens bought, sold or exchanged. Correspondence desired with collectors.
Thorp, Malcolm R., Peabody Mus., Yale Univ., New Haven, Conn. *Palao.*
Thurston, Dr. H. W., Jr., State College, Pa. *Bot.*
Thurston, J. E., 613 7th Ave. W., Calgary, Alta., Can. *Vert. Palao. C. Ex.*
Thurston, John H., Cambridge, Mass. *Mic. C. Ex.*
Thurston, R. C., Ballard, Louisville, Ky. *Geol.*
Thwing, Charles B., Ph.D., 3339 Lancaster Ave., Philadelphia, Pa. *Physics, Alloys, Pyrometry.*
Thwing, Rev. E. W., 1555 Hillandale Drive, Highland Park, Los Angeles, Calif. C. Ex. Shells and Min.
Thyng, Fred Wilbur, Ph.D., Prof. of Anatomy, Tufts Coll. Med. Sch., 416 Huntington Ave., Boston, Mass. *Microscopical Anatomy, Gross Anat.*
Tietz, Harrison M., 10326 118th St., Richmond Hill, L. I. N. Y. *Noctuidæ from all parts of world.*
Tiffany, Hanford L., Dept. of Botany, Ohio State Univ., Columbus, Ohio.

Tilden, Josephine E., Prof. Bot., Dept. Bot., Univ. of Minn., Minneapolis, Minn. *Alga, Botanical Gardens, Pacific Literature.* Sell above from So. Pacific Regions.

Tilley, G. D., Darien, Conn. *Water Birds.* ?

Tillinghast, Greenport, Suffolk Co., N. Y. *Mic., Biol., Bot.* C. Ex. and buy.

Tilton, John L., Prof. Geol., State Univ. of West Va., Morgantown, W. Va. *Pleistocene Geol.* C. Ex.

Timberlake, P. H., Expr. Sta., H. S. P. A., Honolulu, T. H. *Ent., Parasites, Hymen., esp. Chalcidoidea, Encyrtidae.* C. Ex.

Tindall, Chas. W., Independence, Mo. *Orn., Ool.*

Tinkcom, J. G., Hiram, Ohio. *Zool.*

Tinker, A. D., 519 Oswego St., Ann Arbor, Mich. *Orn.*

Titherington, Robert J., 6317 Norwood St., Germantown, Phila., Pa. *Ent., esp. Diptera.* C. Ex.

Titas, W. H., Ellsworth, Me. *Birds, Wild Flowers.*

Titus, Charles P., 32 New St., East Orange, N. J. Fellow Research Lab. for *Mic. Investigations. Photo Mic.*

Titus, Dr. Edward G., Box 453, Idaho Falls, Ida. *Ent., Hymen., esp. Apoidea, Zool., Coleopt., Eugenics.* C. ?

Tobias, Clarence Edwin, Jr., Zool. Dept., Univ. of Penn., Philadelphia, Pa. *Orn., Bot., Marine Biol., Ecol.*

Todd, W. E. Clyde, Carnegie Mus., Pittsburgh, Pa. *Geog. Dist., Orn.*

Tolmachoff, J. P., Cur. of Invert. Palæo., Carnegie Mus., Pittsburgh, Pa. *Geol., Palæo., Econ. Geol., esp. Siberia and Russia.*

Tolman, C. F., Geologist, Stanford Univ., Calif. *Econ. Geol.*

Tonnele, Walter, 200 West 72nd St., New York, N. Y. *Papilio and Sphingidæ.*

Torre-Bueno, J. R. de la, 11 North Broadway, White Plains, N. Y. *Heteroptera, esp. the aquatic groups.*

Torrey, Geo. S., Asst. Prof. of Plant Pathol., Conn. Agric. Coll., Storrs, Conn. *Flora of N. E., Crypt. esp. Fungi.*

Torrey, Harry Beal, Prof. of Biol., Reed College, Portland, Ore. ?

Tothill, John D., S.D., Dominion Ent. Lab., Fredericton, N. B., Can. *Tachnidæ, Natural Control, Forest Ent.*

Totten, Henry Roland, Asst. Prof. of Bot., Univ. of No. Car., N. C., *Trees, Fungi, Med. Plants.*

Toumey, Prof. James W., Yale Forest School, New Haven, Conn.

Tower, Ralph W., A.B., M.A., Ph.D., Curator of Comp. Physiology, Cur. of Books and Publications, Amer. Mus. Nat. Hist., New York, N. Y. *Physiol.*

Tower, Samuel F., South Boston High School, Boston,

Mass. *Bot.*
Townsend, Chas. Haskins, Sc.D., Dir. N. Y. Aquarium, New York, N. Y. *Gen. Zool., Ichth., Mam., Orn., Oceanography.*

Townsend, Dr. Chas. W., 98 Pinckney St., Boston, Mass. *Orn.*

Townsend, Rev. Manly B., Medfield, Mass. *Nature Lecturer.*

Tozzer, Alfred M., Prof. of Anthropology, Harvard Univ., Peabody Museum, Cambridge, Mass. *Central America and Mexico.*

Tracy, H. S., Teacher Bot., High School, Whittier, Calif. *Bot.*

Tracy, S. M., Biloxi, Miss. *Bot. C. Sets of Gulf Coast Plants for sale. Ex. Gramineæ.*

Trafton, Prof. Gilbert H., Mankato, Minn. *Orn.*

Treat, Willard E., Silver Lane, Conn. *Ool., Mam., Tax.*

Treadwell, Aaron L., Ph.D., Prof. of Zool., Vassar Coll., Poughkeepsie, N. Y. *Zool.*

Treherne, R. C., Dept. of Ent., Ottawa, Ont., Can. *Ent.*

Trelease, Prof. William, Univ. of Illinois, Urbana, Ill. *Bot.*

Tremper, Dr. R. H., 1503 Magnolia Ave., Los Angeles, Calif. *Pac. Coast Shells.*

Trigg, R. L., Fla. Agric. Expr. Sta., Gainesville, Fla. *Ent.: Hemiptera.*

Trimble, F. N., Bureau of Plant Industry, Harrisburg, Pa. *Aphids.*

Troemner, J. Louis, 16 E. Mt. Pleasant Ave., Mt. Airy, Philadelphia, Pa. *Aquarium Life.*

Troop, James, Purdue Univ., Lafayette, Ind. *Mic. Ent.*

Trotter, Wm. Henry, 36 W. Front St., Philadelphia, Pa. *Orn.*

Troxell, Edw. L., Peabody Museum, Yale Univ., New Haven, Conn., *Geol., Palæo., Living Animals.*

Trudell, Harry W., 2030 E. Madison St., Philadelphia, Pa. *Min., Bot., Geol., Small Coll.*

Trowbridge, P. F., Ph.D., Prof. of Agric. Chem., Dir. Agric. Expr. Sta., Agricultural College, N. D.

True, Rodney Howard, Prof. of Bot. and Dir. Bot. Gardens, Macfarlane Hall of Bot., Univ. of Penn., Philadelphia, Pa. *Plant Physiol., Agricultural History.*

Truitt, R. V., Prof. Agric., Univ. of Md., College Park, Md. *Aquatic Animals and Birds.*

Tryon, F. G., U. S. Geol. Survey, Washington, D. C. *Geog. and Geol.*

Tubby, Edgar, State Agric. Coll., Fort Collins, Colo. *Florist.*

Tucker, Elbert S., Baton Rouge, La. *Ent.: Hexapoda, Arachnida, Myriapoda. ?*

Tucker, Geo. L., 164 Delaware Ave., Buffalo, N. Y. *Arch.*
Tucker, Susan, R. D. 1, Cheney, Spokane Co., Wash. *Bot.*
C. of seeds, plants, etc., for botanic gardens a specialty.
Tuckerman, Frederick, Amherst, Mass. *Anat. of Vert.*
Tufts, Rolie W., Wolfville, N. S., Can. *Con., Orn.*
Turner, J. J., Ph.D., Prof. Biology, Hiram College, Hiram,
Ohio.
Turner, Neely, Univ. of Mo., Columbia, Mo. *Syst. and
Econ. Ent.*
Turner, Thomas W., Prof. of Bot., Howard Univ., Washing-
ton, D. C. *Plant Physiol., Morph., Plant Diseases.* C.
Ex.
Tuttle, F. May, 1114 State St., Osage, Iowa. *Birds, Bot.,
Geol., Arch.*
Tuttle, Franklin E., A.M., Ph.D., 125 E. Maxwell St., Lex-
ington, Ky. *Chem.*
Twitchell, Dr. Geo. B., 845 Dayton St., Cincinnati, Ohio.
Zool., Paleo.
Tykal, James, 2412 S. Harding Ave., Chicago, Ill. *Lepid.*
Tyler, Elza E., B.Sc., A.M., Columbia, Mo. *Biol. C. of
Animal Parasites.*
Tyler, John M., Emer. Prof. Biol., Amherst Coll., Amherst,
Mass.
Tyrrell, Edward R., Modeler in Lower Zoology, Public
Museum, Milwaukee, Wis. *Zool.*
Tyrrell, J. B., M.A., B.Sc., F.R.S.C., F.G.S., Consulting Geol-
ogist and Mining Engineer, 534 Confederation Life
Bldg., Toronto, Canada. Geology of the Precious and
Semi-Precious Metals and their Ores.
Tyrrell, W. D., Field Mus. Nat. Hist., Chicago, Ill. *Orn.,
Tax.*
Udden, John A., Consulting Geologist, 1140 So. Owosso St.,
Tulsa, Okla. *Geol., Oil, Gas, Iron, Coal, Philately.* C.
Ex. and buy.
Udden, Dr. John August, 80 West 31st St., Austin, Texas.
Geol.
Ufford, Eugene U., D.M.D., 231 Central St., Auburndale,
Mass. *Orn., Philately.*
Ulrey, Albert, A.M., Prof. of Biol., Univ. of So. Calif., 1435
W. 23rd St., Los Angeles, Calif. *Zool., Gen. Biol.*
Ulrich, E. Q., U. S. Geological Survey, Washington, D. C.
*Stratigraphy and Invert. Palao., especially Bryozoa,
Gastropoda, Pelecypoda and Ostracoda.*
Underwood, Jay G., Hartland, Vt. *Bot. C.*
Underwood, Wm. Lyman, 50 Common St., Belmont, Mass.
Nat. Hist.
Unger, C. W., Pottsville, Pa. *Palaeozoic Fossil Plants.* C.
Ex.

Unglenk, L., Amana Iowa. *Lepid.*

Unzicker, Dr. Robert, 220 So. State St., Chicago, Ill. *Beetles and Butterflies.* C.

Upham, Warren, Archæologist, Minn. Hist. Soc., St. Paul, Minn. *Glacial and Recent Geol.*

Urner, Charles A., 613 Cleveland Ave., Elizabeth, N. J. *Birds.*

Utterbock, W. I., Head Dept. Biol., Marshall Coll., Huntington, W. Va. *Naides.*

Valiant, William S., Curator Geol. Museum, Rutgers College, New Brunswick, N. J. *Min., Fossils, Rocks.* C.

Valleau, Wm. D., Assoc. Prof. Plant Pathol., Ky. Agric. Expr. Sta., Lexington, Ky.

Van Allen, Dr. Thos., 210 So. Broad St., Mobile, Ala. *Gen. Nat. Hist.*

Vanatta, E. G., Acad. of Nat. Sciences, Philadelphia, Pa. *Conch.*

Vance, Sarah H., Dir. of Foods, State Board of Health, 6th and Main Sts., Louisville, Ky. *Bacteriology.*

Van Cleave, H. J., Assoc. Prof. of Zool., Nat. Hist. Hall, Univ. of Ill., Urbana, Ill. *Invert. Morph., Parasitology, Cytol.* C. Ex.

Vandercook, C. B., Odin, Ill. *Orn., Ool.* C. Ex. for eggs.

Vanderpoel, Frank, Ph.D., E.M., 369 Park Ave., Orange, N. J. *Min., Chem., Mic.* C. Ex.

Van der Veer, Albert, A.M., Ph.D., LL.D., F.A.C.S., 28 Eagle St., Albany, N. Y. Regent Ex-Vice Chancellor and Chancellor, Univ. of the State of N. Y. *Greatly interested in our State Museum.* Exchanges made through Prof. John M. Clarke.

Van Dine, Delos L., Penn. State Coll., State College, Pa. *Ent.*

Van Duzee, Edward P., Curator of Insects, Calif. Acad. Sci., San Francisco, Calif. *Hemipt.* C.

Van Duzee, Millard C., 12 Abbottsford Pl., Buffalo, N. Y. *Diptera.* C. Ex.

Van Dyke, Dr. Edwin C., Dept. of Ent., Univ. of Calif., Berkeley, Calif. *Coleopt., esp. Carabidæ, Elateridæ and Forest Insects.* C. Ex.

Van Hook, James M., Assoc. Prof. Bot., Ind. Univ., Bloomington, Ind. *Mycology, Plant Pathology.*

Van Horn, Miss Adaline, 513 Sherbrooke St., West, Montreal, Can. Bot.

Van Horn, Frank R., Ph.D., D.Sc., Case School of Applied Sci., Cleveland, Ohio. *Min., Econ. Geol.* C. Ex. Rocks and Fossils.

Van Hyning, T., Dir. State Museum, Gainesville, Fla. *Florida Moll.*

Van Name, Willard G., Ph.D., Zool., Am. Mus. Nat. Hist., New York, N. Y. *Emb., Zool. esp. Tunicata, Isopoda, Orn.*

Vansell, G. H., Inst. in Ent., College of Agric., Univ. of Cal., Davis, Cal. *Gen. Ent., Bee-keeping.*

Vantine, Lewis A., Teacher of Nature Study, State Normal Sch., Milwaukee, Wis.

Van Tuyl, Francis M., Univ. of Ill., Urbana, Ill. *Gen. Geol. ?*

Van Vleet, De Forrest, Dryden, N. Y. *Arch. C. Ex. ?*

Van Winkle, Anthony Stewart, General Delivery, Montgomery, Ala. *Coleopt. ?*

Van Zwaluwenburg, R. H., Asst. Bureau of Ent., U. S. Ent. Lab., Hagerstown, Md. *Elateridae. ?*

Varnum, Clarence E., Atco, N. J. *Local Bot.*

Varrelman, Ferdinand Armin, Biologist, Nat. Research Council, Am. Mus. Nat. Hist., New York. *Floristry, Gen. Bot., Protozool., Ent., M. and F. W. Invert. C. Ex.*

Vars, Harold N., c/o Bureau Biol. Survey, Washington, D. C.

Vaughan, T. Wayland, Ph.D., Geologist and Oceanographer, Dir. Scripps Inst. of Univ. of Calif., La Jolla, Calif. *Stratigraphic Geol., Invert. Palaeo., fossil and recent corals, general Oceanography, esp. Marine Sediments.*

Vaux, George, Jr., Gulph Road, Bryn Mawr, Pa. *Min. C. Venables, E. O., Vernon, B. C., Can. Ent. ?*

Verret, Joseph A., 903 10th St., Honolulu, T. H. *Plant Breeding, Sugar Cane Agric.*

Verrill, Addison E., Prof. Zool., Emeritus, Yale Univ., New Haven, Conn. *Gen. Biol., Annelida, Terhellaria, Anthozoa, Moll., Tunicata, Echinoderms, Porifers, Crustacea.*

Very, Prof. Frank W., Westwood, Mass. *Astrophysics, Geol. Collection of birds, insects and geological specimens.*

Viault, Miss Elsie R., Hunter Coll., New York, N. Y. *Anth.*

Vickers, Ernest W., Box 81, Birdacre, Berlin Center, Ohio. *Bot., Orn., Nature Photog. C. Ex.*

Vickery, R. A., U. S. Ent. Laboratory, 10 Court St., Arlington, Mass. *Aphidiidae, Econ. Ent.*

Viereck, H. L., Ent. Branch, Dept. of Agric., Ottawa, Ont., Can.

Vinal, George Wood, Physicist, Bureau of Standards, Washington, D. C. *Electro. Chem., Physics.*

Vinal, William Gould, Ph.D., R. I. Coll. of Education, Providence, R. I. *Shellfish.*

Viosca, Percy, Jr., B.S., M.S., Natural History Bldg., New Orleans, La., Pres. So. Biol. Supply Co., Inc., *Biol., La. Dept. of Conservation, Entom., Zool., Reptiles and Am-*

phibians of La. C. Ex. Sell living and preserved animals and plants of all types for laboratory or mus. Curator, fishes, amphibian reptiles, State Mus. Visschner, J. P., Biol. Lab., Johns Hopkins Univ., Baltimore, Md.

Vogel, Karl M., Asst. Prof. of Clinical Pathology, Columbia Univ., 680 Madison Ave., New York City.

Vogelweid, Rev. Joseph A., 216 Broadway, Jefferson City, Mo. *Lepid.*

Volk, Ernest, Am. Mus. Nat. Hist., New York City, or Peabody Mus., Cambridge, Mass. ?

Vollbrecht, Paul, 1705 North Fremont St., Chicago, Ill. *Lepid.* C. Ex. or sell.

Von Engelm, O. D., Prof. Physical Geography, Cornell Univ., Ithaca, N. Y. *Phys. Geog. and Regional Geol.* C. of Geological and Geographical Photographs.

Von Fuehrer, Ludwig, 771 Bryn Mawr Road, Pittsburgh, Pa. *Orn., Ethnol.*

Von Fuehrer, Ottmar, Asst. Taxidermist, Carnegie Mus., Pittsburgh, Pa.

Von Lengerke, Justus, 257 Highland Ave., Orange, N. J. *Birds of prey; hawks, oreoles, falcons, eagles, etc.*

Von Schenk, Dr. Herman, 4226 Flat Ave., St. Louis, Mo. *Bot.*

Vonsen, M., Petaluma, Calif. *Min.* C. Ex. and buy.

Voorhees, Louis A., Chemist to the Dept. of Health, New Brunswick, N. J. *Food, Drugs, Sanitary and Municipal Chem.*

Vorhies, Prof. C. T. Ph.D., Prof. of Ent., Univ. of Ariz., Tucson, Ariz. *Ent., Nat. Hist. of Desert Animals.*

Wade, Bruce, Asst. Geol., Tenn. Geol. Survey, Nashville, Tenn. *Cretaceous Geol.* ?

Wade, Joe S., Ent., Bureau of Ent., U. S. Dept. of Agric., Washington, D. C. *Coleopt. Tenebionidae.* C. Ex.

Wade, Otis, Whitten Hall, Mo. Univ., Columbia, Mo. *Econ. Ent.*

Wadsworth, Robert A., Box 374, Hartford, Conn.

Wagner, George, Asst. Prof. Zool., Univ. of Wis., 73 Biology Bldg., Madison, Wis. *Vert. fauna of Wis.* C. Will buy.

Wahl, Louis, 183 So. Blvd., New York City. *Ent.* ?

Wainwright, Benjamin, 420 Drexel Hall, Delaware Co., Pa. *Ent., Tax.*

Wait, Frank Goodell, Mines Branch, Dept. of Mines, Ottawa, Ont., Can. *Min., Inorg. Chem.*

Waite, Frederick C., Prof. Histol and Emb., School of Medicine, Western Reserve Univ., St. Clair Ave. and East 9th St., Cleveland, Ohio.

Walcott, Chas. D., Sec. Smithsonian Inst., Ex-Officio Keeper, U. S. Nat. Museum, Washington, D. C. *Paleo., Geol.* Many publications relating to Cambrian faunas; interested in receiving trilobites.

Walden, Benjamin H., Conn. Agric. Exp. Sta., New Haven, Conn. *Ent.*

Waldron, Clare Bailey, Dean of Agric., Agric. College, N. D. *Bot., Forestry.* Buy forestry material.

Waldron, Clarence H., 2113 Second Natl. Bank Bldg., Toledo, Ohio. *Seeds, plants.*

Waldron, L. R., Plant Breeder, Agric. College, N. Dak. *Genetic Material, Syst. Bot.*

Waldron, Ralph A., Thiel College, Greenville, Pa.

Walker, Adolph E., Asst. Prof. Bot., Ohio State Univ., Columbus, Ohio. *Ecol., Econ. Bot.*

Walker, Alex., Tillamook, Ore. *Orn., Mam.* Coll. of birds and mammals. Ex. first-class skins. Esp. desire weasels and squirrels from all localities.

Walker, Bryant, 1306 Dime Bank Bldg., Detroit, Mich. *L. and F. W. Shells.* C. Ex. Buy shells in my coll.

Walker, Dora H., Benson, Vt. *Orn., Native flowers, trees, moths.*

Walker, Edmund M., B.A., M.B., 67 Alcina Ave. or Biol. Dept., Univ. of Toronto, Ont., Can. *Orthopt., Odonata, Insect Morph. Biol. Dept.*, Univ. of Toronto, Ont., Can. or Royal Ont. Mus. of Zool.

Walker, E. P. Wrangel, Alaska. *N. A. Mammals.* C. Ex.

Walker, Elda Rema, Assoc. Prof. of Botany, Univ. of Nebr., Lincoln, Nebr. *Algæ, Morphol.*

Walker, Fred H., Forest River Terr., Marblehead, Mass. *Insect behavior with special reference to the Lepid. of Northeastern U. S.* C. Ex. for N. E. specimens only.

Walker, Fred W., Box 505, Gainesville, Fla. *Lepid., Orn.* C.

Walker, James, 731 Lexington Ave., Brooklyn, N. Y. *Mic.*

Walker, James W., M.D., 1504 East 53rd St. Chicago, Ill. *Biol.*

Walker, Rosaline R., Tillamook, Ore. *L. F. W. and Marine Shells.* C. Ex.

Walker, Seva Belle, Assoc. Prof. Bot., Univ. of Neb., Lincoln, Nebr. *Fungi and Plant Pathology.*

Walker, Thomas Leonard, Ph.D., Prof. of Min., Univ. of Toronto, Toronto, Can. *Minerals, Rocks.*

Wall, Dr. Otto A., Jr., 3122 S. Grand Ave. St. Louis, Mo. *Anth., Bot., Mic. ?*

Wallace, C. R., 69 Columbus Ave., Delaware, Ohio. *Orn.*

Wallace, Prof. R. C., Dept. of Geol. and Mineralogy, Univ. of Manitoba, Winnipeg, Man., Can. C. *Ordovician, Si-*

lurian, Devonian Fossils. Specimens of Selenite from Manitoba. Esp. interested in Fossils of other formations and ore. spec. from Western Mining Camps.

Wallace, Thomas W., Sanford, Maine. *Orn., Ent., Bot. C. Ex. Lepid.*

Wallaston, Mrs. E., Unionville, Pa. *Lepid.*

Walleau, W. D., Assoc. Prof. Plant Pathol., Ky. Agric. Expr. Sta., Lexington, Ky. *Plant Pathol., Plant Breeding, Mycol.*

Waller, Adolph E., Asst. Prof. Bot., Ohio State Univ., Columbus, Ohio. *Ecol., Econ., Bot.*

Wallis, J. B., School Board Office, Winnipeg, Can. *Ent., Coleopt., Odonata. C. Ex.* Offer Manitoba Coleopt. for Haliplidæ, Gyrinidæ, Dytiscidæ, Carabidæ, Chrysomeldæ. Will identify Haliplidæ, Gyrinidæ, Dytiscidæ.

Walpole, B. A., Asst. Prof. Agric. Education, East Lansing, Mich. *Syst. Bot. and Orn. C. Ex.*

Walter, H. E., Ph.D., Prof. of Biol., Brown Univ., Providence, R. I. *Birds, Genetics.*

Walters, Frank, 144 E. 59th St., New York, N. Y. *Bot.*

Walters, Herman A., Zool. Lab., Univ. of Pa., Philadelphia, Pa.

Walters, Leon L., Taxidermist, Field Mus. of Nat. Hist., Chicago, Ill.

Walther, P., 508 Muriel Parkway, Elizabeth, N. J. *Min.*

Walton, Dr. Geo. L., Hotel Ludlow, Boston, Mass. *Bot.*

Walton, L. B., Ph.D., Prof. of Biology, Kenyon College, Gambier, Ohio. *Evolution, Aquatic Biology, Euglenoids, etc. Planarians, Endomychidae, Aquatic Oligochaeta, Protozoa in general.*

Walton, R. W., Bureau of Ent., Washington, D. C. Assoc. Chief, *Cereal and Forage Insect Investigations, Diptera. C. Ex.* Diptera in families Asilidæ, Syrphidæ, Bambyliidæ, Tabanidæ and Muscoidæ.

Wanner, A., York, Pa. *Palao., Geol., Min., Arch. C. Ex.*

Ward, Frank A., A.M., Pres. of Ward's Nat. Sci. Establishment, Rochester, N. Y. *Zool. C. Ex.* Buy or sell.

Ward, F. H., Vice-Pres., Ward's Nat. Sci. Establishment, Rochester, N. Y. *Paleo. C. Ex.* Buy or sell.

Ward, Henry Baldwin, Ph.D., Prof. of Zool., Univ. of Ill., Urbana, Ill. Invert. Anat., Parasitology. *C. Ex.*

Ward, Henry L., Dir. Kent Scientific Mus., Grand Rapids, Mich. *Zool., Geol., Arch.*

Ward, W. E., General Freight Office, C. P. R., Vancouver, B. C., Can. *Ent.*

Wardell, Harry C., State Museum, Albany, N. Y. *Fossils, Trilobites.*

Wardle, Harriet N., Asst. Cur., Dept. Arch., The Academy of Nat. Sci., Logan Sq., Philadelphia, Pa. *Am. Arch. and Ethnol.*

Ward's Natural Science Establishment, 84-102 College Ave., Rochester, N. Y., Frank A. Ward, Pres. *Zool. Anat.* F. H. Ward, Vice-Pres., G. M. Ward, Sec. and Treas. *All Depts. of Nat. Sci. including Zool., Min., Geol., Palaeo. Ent.* C. Ex. buy and sell.

Warran, Sam, Austinburg, Ohio. *Birds.* Student and general collector.

Warren, Dr. B. H., Orn. of Penn., State Game Comm., 220 West Market St., West Chester, Pa. *Birds and Mam.* C. Ex. Skins.

Warren, Charles Hyde, Ph.D., Sterling Prof. Geol., and Dean of the Sheffield Scientific School, Yale Univ., New Haven, Conn. *Geol.*

Warren, Prof. Howard Crosby, Stuart Prof. of Psychol., Princeton Univ., Princeton, N. J. *Psychol., Scientific Bibliog.*

Wartman, Frank S., Box 273, Univ. Sta., Tucson, Ariz. *Min., Geol., also desert flora.*

Warwick, F. W., B.Sc., 36 Blenheim Rd., Galt, Ont., Can. *Orn., Lepid.* C. Ex. Eggs and Lepid.

Washburn, F. L., A.M., Prof. of Zool., Univ. of Minn., and Experiment Sta., St. Anthony Park, Minn. *Zool.*

Waterman, Warren G., Ph. D., Assoc. Prof. of Bot., 27 Fish Hall, Northwestern Univ., Evanston, Ill. *Plant Ecol. Forestry.*

Watkins, S. L., Grizzly Flats, Calif. Collector of *Native West American Tree, Shrub and Flower Seeds, also Liliaceous plants.*

Watson, C. G., 201 Rideout St. S., London, Ont., Can. *Orn.*

Watson, Frank E., Dept. Entomology, Am. Mus. Nat. Hist., 77th St. & Central Park W., New York City. *Lepid., Hesperiidae.* Coll. of local Rhopalocera.

Watson, Frank E., A.M., Asst. Prof. in Biol., Hobart College, Geneva, N. Y. *Biol., Zool.* ?

Watson, John B., Johns Hopkins Hospital, Baltimore, Md. *Homing and Migration.* ?

Watson, J. R., Fla. Agric. Expr. Sta., Gainesville, Fla. *Ent.: Thysanoptera, Ecology.* C. Ex.

Watson, Lawrence W., Charlottetown, P. E. I., Can.

Watson, Minnie Elizabeth (Mrs. Oliver Kamm), Ph.D., Urbana, Ill. *Parasitic Protozoa of Invertebrates.* Coll. ferns of U. S.

Watson, Thomas A., 76 Mt. Vernon St., Boston, Mass. *Geol.*

Watson, Prof. Walter Starr, State Normal School, White-

water, Wis. *Bot.*

Watt, Miss Lucy (Nervous Sys. Turtles), Dept. Zool., Wells Coll., Aurora, N. Y.

Watt, Dr. W. G., Vergennes, Vt. *Ent.: Theclas.* C. Ex. ?

Waugh, Prof. Frank A., Amherst, Mass. *Hort., Bot., Forestry.*

Weatherbee, Charles A., 1062 Main St., East Hartford, Conn. *Taxonomic Bot., Phyte-geography.* C.

Weaver, C. E., Assoc. Prof. Geol., Univ. of Washington, Seattle, Wash. *Geol., Palao., Geol.*

Webb, Prof. A. C., 309 Wilburn St., Nashville, Tenn. *Orn.* ?

Webb, Roscoe J., Garrettsville, Ohio. *Bot. Orn.* C. of plants. Ex.

Webb, Wm. S., Prof. of Physics, Univ. of Ky., 363 Transylvania Park, Lexington, Ky. *Arch. (Am. Indian), particularly Miss. Valley.* C. Ex. and buy.

Webber, Herbert J., Ph.D., D. Agr., Director Citrus Expr. Sta., and Dean Graduate School Tropical Agr., Riverside, Calif. *Genetics and Tropical Plants. esp. Rutaceæ.* ?

Weber, Jay A., 151 Grand Ave., Leonia, N. J. *Bird skins, bird eggs.* C. Ex.

Weber, Oscar, 283 St. M. St. Lambertville, N. Y. *Ent.* ?

Webster, Clement L., M.Sc., Geol. and Mining Engineer, 111 Hawkins Ave., Charles City, Iowa. *Fossils.* ?

Webster Co., Frank Blake, Hyde Park, Mass. *All branches of Natural History.* C. Ex.

Webster, Mrs. D. C., R. D. 1, Hartland, Vt., *Fresh Water Algae, orchids and ferns.*

Webster, Miss Emeline, Hartland, Vt. *Bot.*

Webster, Frank, 16 Safford St., Hyde Park, Mass. *Naturalist.*

Webster, Lucia Hazen, B.A., M.S., (Mrs. D. C.) Hartland, Vt. *Botany, principally Agæ.*

Webster, Dr. R. L., Agric. Coll., Fargo, N. D. *Econ. Ent.*

Weed, Alfred C., A.B., Asst. Cur. of Fishes, Field Museum of Nat. Hist., Chicago, Ill. *Fishes.* Will ex. or buy for Field Museum.

Weeks, Andrew Gray, Marion, Mass. *Diurnal Lepid. of the World.* C. 30,000. Will purchase large or small lots.

Weeks, Archibald C., B.S., LL.B., Lib. Brooklyn Ent. Soc., 222 Park Pl., Brooklyn, N. Y. *Coleopty., Lepid.* Have a general collection of insects. Ex.

Weeks, Edwin R., Consulting Elect. and Mech. Engineer, rison St., Kansas City, Mo. *Physics, Elect., As t., Gen. Office 504-507 New Nelson Bldg., Residence, 3408 Har-Biol.*

Weeks, Rev. Le Roy Titus, Ph.D., Emmetsburg, Iowa.
Birds.

Weeks, Wm. H., 508 Willoughby Ave., Brooklyn, N. Y.
Con., Marine Gastropoda. C. Ex. Desires to ex. with
foreign collectors. List first.

Weese, Prof. A. O., James Millikin Univ., Decatur, Ill.
Ecol.

Wegeforth, Harry M., M.D., 210 Maple St., San Diego,
Calif. *Zool. in general.* C. Ex. and buy.

Wehmeyer, Louis J., University Museum, Univ. of Mich.,
Ann Arbor, Mich. *Bot., Mycol.*

Wehrle, Lawrence P., Dept. of Ent., Cornell Univ., Ithaca,
N. Y. *Econ. Ent., Ecol.*

Weimer, Bernal R., Asst. in Zool., W. Va. Univ., Morgan-
town, W. Va. *Zool. ?*

Weinard, F. F., Div. of Floriculture, Univ. of Ill., Urbana,
Ill. *Plant Phys. and Pathol.*

Weinstein, Dr. Alexander, Biol. Lab., Johns Hopkins Univ.,
Baltimore, Md. *Genetics, esp. biology.*

Weir, James R., Ph.D., Lab. of Forest Pathol., Missoula,
Mont. *Mycol.* C. Ex. ?

Weisgerber, H. W., 209 Warren Ave., Youngstown, Ohio.
Gen. Nature.

Weiss, Freeman, U. S. Dept. Agric., Bureau Plant Industry,
Washington, D. C. *Bot.*

Weiss, Harry B., 19 N. 7th Ave., Highland Park, New Bruns-
wick, N. J. *Ent. (All phases), Ecol., Fungus insects.*

Welch, Paul S., Ann Arbor, Mich. *Enchytridae, (Oligo-
chaeta, Aquatic Insects.)* C. Ex. Aquatic insects.

Welch, Winona H., Asst. in Bot., 1000 W. Ill., or 202 N.H.,
Urbana, Ill. *Taxonomy.*

Weldon, Walter A., 244 Post Ave., Rochester, N. Y. *Arch.
C.*

Weller, Stuart, B.S., Ph.D., Prof. of Palaeo., Geol., Univ. of
Chicago, Chicago, Ill. *Geol., Invert. Palao.* C. Ex.

Wellman, Gordon Boit, Ph.D., Asst. Prof., Wellesley Coll.,
17 Midland Rd., Wellesley, Mass. *Orn., Batrachians.*

Wells, B. W., Prof. Bot., State Coll., Raleigh, N. C. *Plant
Galls.* C. Ex.

Welsh, Major, Blanton C., U. S. Army, Retired, Second and
Chestnut Sts., Columbia, Pa. *Diatoms.* Ex. ?

Wendt, George, Rochester, N. Y. *Ent.*

Wenrich, Dr. D. H., Ph.D., Zool. Dept., Univ. of Pa., Phila-
delphia, Pa. *Zool., Cytol., Protozoology.*

Wentling, Prof. J. P., 2915 Doswell St., St. Paul, Minn.
*Woods Life, Forestry, Wild Life, Trees and Flowers,
Birds, Mammals.*

Wentworth, Mildred P., Old Science Hall, Iowa City, Iowa.
Bot., Ecol., Genetics.

Wertheimer, M. A., 4251 Laclede Ave., St. Louis, Mo. *N. A. Arch., Min.*

Werum, J. H., Toledo, Ohio. *Ent., Min., Palæo., Marine Invert.*

West, Erdman, New Brunswick, N. J. *Ent.*

West, John H., 2057 E. York St., Philadelphia, Pa. *Lepid.* ?

West, Luther S., Dept. of Ent., Cornell Univ., Ithaca, N. Y.
Insects of medical or veterinary importance, Parasitology.

Westergren, A. M., 266 W. Newton St., Boston, Mass. *Crust.. Echinoids.*

Westgate, Prof. Lewis G., Ph.D., Delaware, Ohio. *Geol.*

Westhorpe, Arthur W., P. O. Box 105, Yankton, S. D. *Birds, Butterflies, Beetles, Ants.* C. Buy.

Weston, Francis F., Jr., U. S. Naval Air Station, Pensacola, Fla. *Orn., Bird Photog.*

Weston, Marion Dodge, Ph.D., Prof. of Bot., R. I. College of Education, Providence, R. I. *Bot., Palæobot.* C. Ex. plant fossils.

Weston, Prof. Wm. H., Jr., 29 Univ. Museum, Cambridge, Mass. *Bot.*

Westover, H. W., M.D., F.R.M.S., St. Joseph, Mo. *Diatoms, Hist.* C. Ex.

Wetmore, Alex., Biological Survey, Dept. of Agric., Washington, D. C. *Orn., Anat., Geog. Dist.*

Wetmore, Perry E., B.A., B.S., Gulfport, Fla. *Con., Biol.* Sell or Ex. Federal Bird Warden, Tampa Bay Group.

Weyman, L. E., Mus. of Nat. Hist., Exposition Park, Los Angeles, Calif. *Orn.*

Wheat, Dr. Frank M., Biol. Dept., N. Y. Univ., Washington Sq., New York City.

Whee, Leslie, 496 Main St., New Britain, Conn. *Palæo. Bot., Indian Relics.* ?

Wheeler, Earl A., East Randolph, Cattaraugus Co., N. Y. *Birds, their nests and eggs.* C. Ex. and buy.

Wheeler, Esther H., Dept. of Zool., Syracuse Univ., Syracuse, N. Y. *Parasitic Hymen.* C. Ex.

Wheeler, George C., Inst. in Ent., Dept. of Zool., Syracuse Univ., Syracuse, N. Y. *Hymenopt. esp. ants.* C. Ex. ants.

Wheeler, H. C., 256 Percival Ave., Montreal West, P. Q., Can. *Diatomaceæ.* C. Ex. buy or sell. Desires Diatoms and Diatom-bearing material from all parts of world.

Wheeler, Rev. H. E., 407 Exchange Bank, Little Rock, Ark. *Orn., Conch.* C. Ex. or buy.

Wheeler, H. J., Ph.D., Sc.D., Manager Agric. Service Bureau, The American Agric. Co., 92 State St., Boston, Mass. *Geol., Soils, Agric. Chem.*

Wheeler, John B., East Templeton, Mass. *Arch., Min., Orn., Marine Spec.* C. Ex. ?

Wheeler, Leston A., Townshend, Vt. *Bot., Gen. Nat. Hist.* C. Ex.

Wheeler, Ralph L., R. 3, Box 69, Canaan, N. H. *Geol., Arch., Min., Lepid. Conch., Tax.* C. Ex.

Wheeler, William Morton, Ph.D., Sc.D., Prof. Econ. Ent., Bussey Inst., Forest Hills, Boston, Mass. *Formicidae of the World.* C. Wish to buy Formicidæ.

Wheelock, Charles, 111 Kenmore Ave., Syracuse, N. Y. *Geol., Palæo., Min., Bot., Birds.* C. Ex. Would like minerals (rocks later than Devonian). Can furnish Silurian and Devonian Rocks, mins. and fossils.

Whelpley, Henry Milton, M.D., Ph.G., Ph.M., 2342 Albion Place, St. Louis, Mo. *American Arch., Mic.* C. Ex. Flint spades and flint notched hoes wanted.

Wherry, Edgar T., Bureau of Chem., Washington, D. C. C. of *Minerals and Plants.*

Whetstone, Mary Snoddy, M.D., Cor. Sec. & Librarian, Minn. Mycological Soc., 738 E. 16th St., Minneapolis, Minn. *Mycol.* C. Ex. Fungi.

Whetzel, H. H., Prof. Plant Pathol., Ithaca, N. Y. C. Ex. *Plant Diseases.*

Whitaker, Harvey Williams, M.D., 72 S. Grant Ave., Columbus, Ohio. C. of Ethnological specimens from all parts of the world.

White, C. E., 2814 Pasadena Ave., Los Angeles, Calif. *Con., Marine Moll. only.* C. Ex.

White, David, Geol. Survey, Assoc. Cur. in Palæo., National Mus., Washington, D. C. *Palæozoic Palæo-Botany and Strat. Geol.*

White, Donald, Inst. Wakefield High School, 56 Jordan Ave., Wakefield, Mass. *Bot., etc.* C. Ex.

White, Douglas M., 61 North St., Rochester, N. Y. *Ferns and Flowering Plants.* C. Ex.

White, Edson W., 266 Albion St., Wakefield, Mass. *Orn.*

White, Francis Beach, St. Paul's School, Concord, N. H. *Orn., Mam.*

White, Geo. R., 185 Wurtemberg St., Ottawa, Ont., Can. *Orn.* C.

White, I. C., A.M., Ph.D., LL.D., D.Sc., State Geologist of W. Va., Morgantown, W. Va. *Stratigraphy and Economic Geology esp. Coal, Petroleum and Natural Gas.*

White, James Herbert, Faculty of Forestry, Univ. of Toronto, Toronto, Ont., Can. *Trees, shrubs, woods.* C.

Ex. or buy herbarium material.

White, James, Snelgrove, Ont., Can. Bot., *Phan. and Crypt. Plants, Ferns, Mosses, Lichens, Fungi, Gen. Ent.* C. Ex. for good specimens only, or will sell.

White, Orland Emile, S.M., Sc.D., Brooklyn Botanic Garden, Brooklyn, N. Y. *Plant Abnormalities, Fasciations in Plants, Wild Peas (Pisum), Castor-Beans.* Desire to ex. for seeds and specimens of specialty.

White, Richard P., Prof. Plant Pathol., Dept. of Bot., Kansas State Agric. Coll., Manhattan, Kans. *Fungi, esp. Pyrenomyces.* C. Ex.

Whitehouse, F. C., The Canadian Bank, Nelson, B. C., Can. Econ. Ent., *Odonata and Lepid.*

Whiting, Dr. William A., Prof. of Biology, Birmingham Coll., Birmingham, Ala.

Whitlock, Herbert P., Cur. of Mineralogy, Am. Mus. of Nat. Hist., New York, N. Y. *Min.*

Whitney, Alvin Goodnow, A.B., Asst. Dir., Roosevelt Wild Life Forest Expr. Sta., N. Y. State Coll. of Forestry, Syracuse, N. Y. *Ecol. of Plants and Animals, Nat. Hist. of Forests and National Parks.* C. Ex.

Whitney, Howard, 45 East St., Hartford, Conn. *Bot., Orn., Herpetol.*

Whitney, Jean, East High School, Rochester, N. Y. Teacher of Zool. *Lepid.* C. Ex. buy and sell. N. Y. State moths and butterflies.

Whitlock, H. P., Am. Mus. Nat. Hist., 77th St. & Central Park W., New York City, *Min.* ?

Whitmore, Eugene R., George Washington Univ., Washington, D. C. *Parasitology.*

Whitney, W. A., Prof. Biol., 715—8th Ave. W., Birmingham, Ala.

Whittaker, E. J., Geol. Survey, Ottawa, Ont., Can. *Palao. Conch.*

Whittle, Charles L., Mining Geol., 50 Congress St., Boston, Mass. *Mining Geologist, Diamond Saws, Orn.*

Whyte, Gordon, 525 West 47th St., New York City. *Mic.* ?

Wickham, Henry F., 911 East Iowa Ave., Iowa City, Iowa. *Coleopt.* C. Ex. Will identify material from desirable localities by special arrangement.

Widmann, Otto, 5105 Enright Ave., St. Louis, Mo. *Orn.*

Wiegand, K. M., Prof. Bot., Cornell Univ., Ithaca, N. Y. *Tax. of vascular plants.*

Wigglesworth, Edw., Ph.D., Dir. Boston Soc. Nat. Hist., 234 Berkeley St., Boston, Mass. *N. E. Nat. Hist., Min.*

Wight, Wm. F., U. S. Dept. Agric., Syst. Bot., Pomology and Fruit Breeding in co-op. with Leland Stanford, Jr.

Univ., Box 246, Palo Alto, Calif.

Wiksell, Gustave P., Atherton Ave., Roslindale, Mass. *Mycology, Medico-Legal Subjects. Food plants and trees of all countries to ex.*

Wilber, Charles Parker, Dept. Conservation & Development, State House, Trenton, N. J. *Forest and Tree Problems.*

Wilbur, Ray Lyman, M.D., Pres. Stanford Univ., Stanford Univ., Calif. *C. of Birds and Birds' Eggs.*

Wilcox, E. Mead, Ph.D., 1015 Terminal Bldg., Lincoln, Nebr. *Plant Pathology.*

Wilcox, Eugene, 2224 Hazel St., Butte, Mont. *Offers Montana upper ores.*

Wild, Wm., 359 Walnut St., East Aurora, N. Y. *Ent.: Micro-Lepid.*

Wilder, Frank Alonzo, Consulting Geologist, North Hoston, Va. *Geol.*

Wilder, Gerrit P., Bishop Museum, Honolulu, T. H. *Bot.*

Wilder, Harris H., Ph.D., Prof. Zool., Smith College, Northampton, Mass. *Vert. Anat., esp. Osteology, Amphibia, Reptiles, Mam., Eth., Arch.*

Wilhelm, Chas. L., 6809 Bradley Ave., St. Louis, Mo. *Prehist. remains, Bot. C. Ex. and buy.*

Wilhelm, Herman, 3 Pleasant St., Mystic, Conn. *N. A. butterflies and moths, S. A. and exotic butterflies. C. Ex. and sell.*

Wilkerson, G. E., Box 467, Victoria, B. C. Can. *Ent. ?*

Wilkinson, E., 219 W. 5th St., Mansfield, Ohio. *Ent. ?*

Wilcox, M. A., Ph.D., Prof. Emeritus of Zool., Wellesley Coll., 63 Oakwood Rd., Newtonville, Mass. *Mollusca.*

Wilkus, Adolf, 2841 Ohio Ave., St. Louis, Mo. *Moths and butterflies, native and exotic. C. Ex.*

Willard, Harold F., U. S. Bureau of Ent., P. O. Box 340, Honolulu, T. H. *Econ. Ent. and Plant quarantine.*

Willard, Miss Theodora, 22 Prescott St., Cambridge, Mass. *Cypraidæ. C. Ex.*

Willard, Prof. W. A., Ph.D., Univ. of Neb. Medical Sch., Omaha, Nebr. *Histol., Embry. ?*

Willey, Arthur, Strathcona Prof. of Zool., McGill Univ., Montreal, Can. *Zool., Ethnol.*

Willey, Chas. H., Instructor in Biol., N. Y. Univ., University Heights, New York City. *Comp. Anat. of Vert.*

Williams, Browne & Earle, Inc., 918 Chestnut St., Philadelphia, Pa. Importers and Mfrs. of Math., Optical, Mic. and Photographic Instruments, Magic Lanterns and Supplies. ?

Williams, Chas. A., A.M., Ph.D., Urbana, Ill. *Ethnol., Photog., Arch., Philol.*

Williams, Chas. B., Care N. C. State Coll. of Agric., Raleigh, N. C.

Williams, Ellison A., 27 Limehouse St., Charleston, S. C. *Birds.*

Williams, Emeretta C., 24 Dean St., Taunton, Mass. *Bot., Orn., Con., Min., Ast.*

Williams, Herbert Upham, Prof. Pathology and Bacteriology, Medical Dept., Univ. of Buffalo, Buffalo, N. Y. *Pathol. and Anth.*

Williams, Henry S., 918 Chestnut St., Philadelphia, Pa. *Photog., Bot., Mic.* ?

Williams, M. Y., B.Sc., Ph.D., Prof. Palæo. and Stratigraphy, Univ. of B. C., Vancouver, B. C., Can.

Williams, R. C., Jr., 4537 Pine St., Philadelphia, Pa. *Lepid.: Rophalocera, Hesperiidae.* C. Ex. and buy.

Williams, Robert S., New York Bot. Garden, New York City. *Lichens, Mosses.* C. ?

Williams, W. H. & Son, Taxidermists, 704 Stephen Ave. S. Grafton, N. D. *Gen. Nat. Hist. Have coll. of birds and mammals of state for sale.*

Williamson, E. B., Bluffton, Ind. *Odonata.* C. Ex. buy Dragon flies.

Willing, Prof. T. N., Univ. of Saskatchewan, Saskatoon, Sask., Can. *Ent.: Lepid.* ?

Willis, John L. M., M.D., Eliot, York Co., Me. *Min., Bibliog., Anth., History, Arch.* C. Ex.

Willoughby, Charles C., Asst. Dir. Peabody Mus. of Am. Arch. and Eth., Harvard Univ., Cambridge, Mass. *Arch., Eth.*

Wilson, Bess H., Mt. Pleasant, Iowa. *Fossils and Chrystals.*

Wilson, C. E., Prof. Biol., Wake Forest Coll., Wake Forest, N. C. *Coccidae.*

Wilson, Chas. B., Ph.D., Head Dept. of Biol., State Normal Sch., Westfield, Mass. *Copepoda, Odonata, Coleoptera, Lepid.* C. Ex.

Wilson, Ernest H., Arnold Arboretum, Harvard Univ., Cambridge, Mass. *Bot., Hort.*

Wilson, Ernest H., 37 Forest Ave., Caldwell, N. J. *Min. Fine sp. of zeolites.* C. Ex.

Wilson, F. H., Salem, N. Y. *Ent., Biol.*

Wilson, Gordon, Assoc. Prof., 1434 Chestnut St., Bowling Green, Ky. *Birds, esp. gathering of migration data and the banding of migrants.*

Wilson, Guy West, Prof. of Biol., Upper Iowa Univ., Fayette, Iowa. *Bot., esp. Fungi.* C. Ex.

Wilson, Harry, Gum Tree, Chester Co., Pa. *Arch., Orn.* ?

Wilson, Prof. Harley Frost, Econ. Ent. Bldg., Univ. of Wis., Madison, Wis. *Aphidae Homoptera.* C. ex. or buy. I

would like to buy or exchange foreign material and have to offer Am. material of many different species. I would like very much to get in touch with collectors.

Wilson, Henry V., Kevan Prof. Zool., Univ. of North Carolina, Chapel Hill, N. C. *Morph., Emb.*

Wilson, Herbert C., Prof. of Math. and Ast., and Dir. of Goodsell Obs., Carleton, Coll., Northfield, Minn. *Ast.*

Wilson, J. Walter, Asst. Prof. of Biol., Brown Univ., Providence, R. I. *Expr. of Zool., Flatworms.*

Wilson, M. E., B.A., Ph.D., Geologist, Geological Survey, Ottawa, Canada.

Wilson, Orville T., Assoc. Prof. of Bot., Univ. of Cincinnati, Cincinnati, Ohio. *Mic. Ex. slides, plant subjects.*

Wilson, T. Scott., U. S. Ent. Lab., Brownsville, Texas. *Econ. Ent., Heteroptera. C. Ex. ?*

Wilson, William P., B.S., Sc.D., Dir. of the Phila. Museums, 34th St. below Spruce, Philadelphia, Pa. *Commercial Geog., Physiol., Bot. Interested in all questions of commerce and arbitration.*

Winchester, H. Somerset, 35 Willard Ave., Ottawa, Can. *Orn.*

Winfield, Ripley, Jr., Emerson St., Wakefield, Mass. *Bot.*

Wimmer, Edw. J., 1227—20th St., Milwaukee, Wisc. (Temporarily, 807 W. Johnson St., Madison, Wisc.) *Gen. Nat. Hist., Animal behavior, Migration of Birds and Insects, esp. Monachs. C. Ex.*

Wing, Henry H., Prof. Animal Husbandry, Cornell Univ., Ithaca, N. Y. *Agric., Domestic Animals. ?*

Winn, A. F., 32 Springfield Ave., Westmount, Que., Can. *Lepid. C. Ex.*

Winship, P. D., M.D., Park Rapids, Minn. *Arch. C. Prehist. Implements. C. Buy or sell.*

Winslow, E. James, Asst. Prin., Lasell Sem., 222 Grove St., Auburndale, Mass. *Pteridophytes. Ed. Am. Fern Journal.*

Winslow, Mina L., Cur. Moll., Museum of Zool., Ann Arbor, Mich. *Moll.*

Winslow, R. M., Dept. of Agric., Victoria, B. C., Can. *Ent. ?*

Winslow, Wm. C., Ph.D., L.H.D., Sc.D., S.T.D., D.D., D.C.L., LL.D., Hon. Fellow of Royal Arch. Soc. and of the Brit. Arch. Assoc., former Vice-Pres. for U. S. A. of Egypt Exploration Fund, V. P. Egyptian Research Account, Archaeologist and Historical Writer, 525 Beacon St., Boston, Mass. *Arch., Bibliog., Anth., Eth., Ethnog., Philol., Egyptian Antiquities. C.*

Winston, J. R., Plant Pathologist, U.S.D.A., Orlando, Fla. *Plant Pathol., Citrus.*

Wintersteiner, Fred., 716 First St., Secaucus, N. J. *Ent.* ?
 Wintringham, J. P., 153 Henry St., Brooklyn, N. Y. *Pctrol.*
Optical Min. Rock Slides. C. Would buy specimens,
 apparatus or books.

Wirtz, J. W., State University, Augusta, Ga. *Orn., Mam.* ?
 Witcher, Wm., 1350 South West 5th St., Miami, Fla. *But-*
Witte, E. E., 41 Chapman Pl., Irvington, N. J. Lepid.

Wolcott, Robert H., Prof. Zool., Univ. of Nebr., Lincoln,
 Nebr. *Orn., Lepid., Coleopt., esp. Acari, Ecology, Geo-*
graphical Distribution. Desires to secure, by purchase
 or exchange. Acari of all kinds from all parts of the
 world.

Wolfe, Theo. F., A.M., M.D., Ph.D., Succasunna, N. J.
Palwo., Geol., Anat., Arch. C. Ex. ?

Wolff, Dorothy, Wilson Coll., Chambersburg, Pa. *Gen.*
Zool.

Wolff, J. E., Prof. Emer. in Harvard Univ., Pasadena, Calif.
Geol., Min., Petrog.

Wolfgang, Harry Gilbert, P. O. Box 533, Leetonia, Ohio.
Gen. Bot., Sporology. C. Ex. ?

Wood, Wm. C., 51 Fifth Ave., New York City. *N. A. Diur-*
Wood, A. A., R. R. 2, Ilderton, Ont., Can. Bird eggs, birds
and mammal skins. C.

Wood, Elvira, Ph.D., 8 Chamberlain Terrace, Waltham,
 Mass. *Paleo.* C. Ex. or sell.

Wood, Gilbert C., 51 Fifth Ave., New York City. *Lepid.*

Wood, Norman A., Cur. of Birds and Taxidermist of State
 Mus. of Nat. Hist., Ann Arbor, Mich. *Birds and Mam-*
mals of Mich.

Wood, Rodney C., Camp Chief, Boy Scouts Assoc., Domin-
 ion Headquarters, 203 Wellington St., Ottawa, Ont.,
 Can. *Gen. Nat. Hist. N. A.*

Wood, Col. Wm., 59 Grand Allée, Quebec, Can. *Wild Life*
Conservation, Author, "Sanctuaries in Labrador," etc.
nal Lepid., Cicindelidae. C. Ex. and buy.

Woodard, Dr. John, Inst. in Bot., 1516 W. Church St.,
 Champaign, Ill. *Plant Physiol. and Ecology.*

Woodbridge, Helen, Inst. in Biology, Univ. of Me., Orono,
 Me. *Gen. Zool.*

Woodbury, C. G., Purdue Univ., Lafayette, Ind. *Hort.*
Lepid. C. Ex. or buy.

Woodecock, Edward F., Asst. Prof. Bot., East Lansing, Mich.
Bot. C.

Woodcock, Miss Fidella, Cur. of Plants, Nat. Hist. Museums,
 San Diego, Calif.

Woodgate, John, Jemez Springs, N. Mex. *All orders of*
insects. Sell only.

Woodin, G. C., 179 Richardson Ave., Columbus, Ohio. *Hy-*
menopt.

Woodman, Alvalyn E., Ph.D., Amherst College, Amherst, Mass. *Biol.*

Woodring, Dr. W. P., U. S. Geol. Surv., Washington, D. C. *Tertiary Mollusks.*

Woodruff, Frank Morley, Cur. and Ornithologist, Chicago Acad. Sciences, Lincoln Park, Chicago, Ill.

Woodruff, L. B., 14 East 68th St., New York City. *Ent., Orn.*

Woodruff, Prof. Lorande Loss, Zool. Laboratory, Yale Univ., New Haven, Conn. *Protozoa.*

Woods, Wm. C., Judd Hall, Middleton, Conn. *Chrysomelidae.*

Woodward, Miss Marguerite, 3315—16th St. N. W., Washington, D. C. *Conch., Bibliog. terflies and moths.* C. Ex.

Woodward, Richard W., Analyt. Chem., Yantic, Conn. *Bot.*

Woodworth, J. B., Associate Prof. Geol., Harvard Univ., Geol. Museum, Cambridge, Mass. *Geol., Earthquakes.*

Wooldridge, Reginald, Gipsy Moth Laboratory, Melrose Highlands, Mass.

Woolff, Dorothy, Inst. in Wilson College, Chambersburg, Pa.

Woolman, Albert J., 909 W. Oregon St., Urbana, Ill. *Gen. Biol., Geog. Dist., Ichthyol., Crustacea.* C. Ex. ?

Woolson, George C., Riverview Manor, Hastings-on-Hudson, N. Y. *Bot., Hort.* ?

Wooster, L. D., Head Dept. of Biol. Sci., Kansas State Teachers Coll., Hays, Kans. *Biol., Nature Study, Geol., Nature Photog.*

Worden, R. W., 1325 Columbus Ave., Sandusky, Ohio. C. of coins, stamps, *Indian Flints.* Ex.

Worley, Leonard G., Dept. of Zool., Univ. of Neb., Lincoln, Nebr. *Orn., Ent., Animal Ecol., Arch.* Will collect in ex. for spiders.

Wormsbacher, Henry, 1357 St. Charles Ave., Lakewood, Ohio. *Sphingidae, Catocala.* ?

Worsham, Ernest Lee, State Entomologist, Atlanta, Ga. *Insects and Birds.* C. ?

Worthington, W. W., Nat. and Tax., Shelter Island Hgts., Suffolk Co., N. Y. *Orn., Zool., Tax., Con., Ent.* C. Ex.

Worthley, Harlan Noyes, Mass. Expr. Station, Amherst, Mass. *Pepsinæ, Biol. of Tachinid flies.* C. Ex.

Wright, Albert Hazen, A.M., M.D., Asst. Prof. Syst. & Field Zool., Cornell Univ., Ithaca, N. Y. Ex. N. A. Vert. for other forms. *Fishes, Amphibians, Reptiles and Mammals.*

Wright, Dr. F. E., Geophysical Laboratory, Washington, D. C.

Wright, John F., Geological Survey, Ottawa, Ont., Can.
Geol., Min.

Wright, J. Gertrude, Dept. of Bot., Univ. of Toronto, Toronto, Can. *Bot.*

Wright, Wm. S., Nat. Hist. Mus., Balboa Park, San Diego, Calif. *Curator of Insects, Co. Supt. of Nature Study, Lepid., Geometridae of U. S. and No. Mex.* Will purchase or ex.

Wuestner, Herman, 3335 Cavanaugh Ave., Westwood, Cincinnati, Ohio. *Min.* ?

Wulling, Frederick John, Ph. G., Phm.D., LL.M., etc. Dean of the Faculty and Prof. of Pharmacology, Pharmacy of the Univ. of Minn., Minneapolis, Minn. *Bot. C. Ex.*

Wurzlow, E. C., P. O. Box 656, Houma, Parish of Terrebonne, La. *Bot., Ent. Ex.* ?

Wyatt, Alex. K., 2445 Eastwood Ave., Chicago, Ill. *Lepid. C. Ex.*

Wyatt, Paul J., Clarksville, Tenn. *Ent.* ?

Wyckoff, Edw. Guild, Cornell Heights, Ithaca, N. Y. *Arctic Research. C.* ?

Wyman, L. E., Los Angeles Mus., Los Angeles, Calif. *Orn., Mam.*

Yager, Willard E., Oneonta, N. Y. *Arch.*

Yankee, C. O., 1310 Detroit St., Flint, Mich. *Butterflies, Moths, Beetles. C. Ex.*

Yarrow, H. C., M.D., 814—17th St. N. W., Washington, D. C. *Gen. Nat. Hist.*

Yeager, A. F., Agricultural College, N. D. *Fruits, Flowers, Vegetables.*

Yergason, R. M., M.D., 902 Main St., Hartford, Conn. *Instructor in Microbiology, Trinity College. Microbiology, Embryology.*

Yothers, M. A., U. S. Dept. of Ent., Box 243, Yakima, Wash. *Deciduous fruit insects, Econ. Ent.*

Yothers, W. W., P. O. Box 491, Orlando, Fla. *Ent.*

Young, B. P., Cornell Univ., Ithaca, N. Y. *Zool.*

Young, Donnell B., Ph.D., Asst. Prof. of Biol., Carleton Coll., Lairs Hall, Northfield, Minn. *Protozoa.*

Young, Douglas B., Assist. State Ent., State Museum, Albany, N. Y., 117 Dove St., Albany. *Econ. Ent., Coleopt., Diptera. C.*

Young, E. Bentley, M.Sc., 104 Appleton St., Boston, Mass. *Bot., Min., Lithol., Phys. C.* ?

Young, Harry C. Chief, Dept. Bot. and Plant Pathol., Ohio Agric. Expr. Sta., Wooster, Ohio. *Plant Pathol. and Physiol. C. Ex.*

Young, Paul A., Plant Pathologist, 209 Nat. Hist. Bldg., Univ. of Ill., Urbana, Ill. *Bot.*

Young, Prof. Walter Jorgenson, Ph.D., Hampden Sidney College, Virginia. *Animal Behavior.* ?

Young, W. J., Ohio Expr. Sta., Wooster, Ohio. *Hort., Bot.*

Young, W. P., 5 Myrtle Ave., Portsmouth, N. H. *Butterflies, Min., Shells, Fossils.* C. Ex. and buy.

Zahner, Chas. O., Univ. of Louisville, Louisville, Ky. *Biol.* ?

Zahrobsky, Vance J., 287 Wood St., Wilmerding, Pa. *Coleopt.* C. Ex. or buy.

Zaiser, Paul, 1772 E. 24th St., Brooklyn, N. Y. *Ent.*

Zangen, O. V., Box 1570, Orlando, Fla. *Seeds, Bulbs, Plants of tropical nature.*

Zanson, Bernard, Cascade, Md. *Ent.* ?

Zapp, Max P., Asst. Ent., Agric. Expr. Sta., New Haven, Conn. *Coleopt., Econ. Ent.*

Zavitz, C. A., Experimentalist, B.S.A., D.Sc., Agric. Coll., Guelph, Ont., Can. *Phen. Mic., Photog., Agric.* ?

Zeeuw, Richard de, Assoc. Prof. Bot., Mich. Agric. Coll., Lansing, Mich. *Bot., Grasses.*

Zeirrig, Frederick E., Tree Warden, L. Box 139, Ware, Zeissig, J. E., L. Box 139, Ware, Mass. *Lepid., Catocala.*

Zeleny, Charles, Ph.D., Prof. of Zool., Univ. of Illinois, Urbana, Ill. *Exper. Zool., Genetics.*

Zeluff, N. C., Asst. Quarantine Insp. in Charge, Box 283, Tampa, Fla. *Ent., esp. Lepid.* C.

Zerega di Zerega, Louis Augustus, B.A., M.D., 616 Madison Ave., New York, N. Y. *Vert. Zool.* C.

Ziegler, Fred, Jr., Pres. Franklin Co. Nature Club, Green-castle, Pa. *Orn.*

Zimmer, John T., Asst. Cur. of Birds, Field Museum of Nat. Hist., Chicago, Ill. *Birds, Mam.*
Mass. *Lepid.* C. Ex. and buy.

Zscherny, Chas., Amana, Iowa. *Bot.* ?

Zutavern, Louis J., 2320 Forest Ave., Great Bend, Kans. *Orn.*

APPENDIX

Aamodt, Olaf S., Univ. Farm, St. Paul, Minn. *Plant Pathol. and Genetics.*

Adams, C. F., Atherton, Mo. *Ent.: Diptera.* C. Ex.

Allen, J. D., 302 Fifth Ave., N. W., Mandan, N. D. *Butterflies, Moths.*

Allert, Oscar P., R. R. 1, McGregor, Iowa. *Orn. Wishes* only good bird skins, esp. sea birds.

Annand, P. N., Prof. Biol., 312 Griffith Ave., San Mateo, Calif. *Aphidae, Thysanura.*

Aubrey, J. H., Malakwa, B. C., Can. *Birds, Beetles.*

Bailey, Henry Turner, Dir. Cleveland School of Art, 1920 E. 84th St., Cleveland, Ohio. *Flowers, Trees, Mushrooms, Orn., Ent.*

Bailey, H. V., M.F., Franklin, Sussex Co., N. J. *Forest Management.*

Bausman, Joseph, 632 E. Girard Ave., Philadelphia, Pa. *Gold and Tropical Fishes.* C. Ex. and buy.

Beattie, R. K., Federal Horticultural Board, Washington, D. C. *Syst. Bot. of the Pacific Northwest esp. of the Siskiyou Mts. of S. W. Oregon.* C. Ex.

Beyer, A. H., Asst. Ent., Univ. of Fla., Gainesville, Fla. *Ent.*

Bicknell, Mrs. F. T., 319 So. Normandie Ave., Los Angeles, Calif. *Birds, Flowers, Trees, Ferns, Mosses, Insects.* C. Buy.

Blain, Walter L., 713 W. Iowa St., Urbana, Ill. *Plant Pathol., Bot. in general.*

Brody, M. K., 3220—17th St., Washington, D. C. *Amphibians, esp. Caudata.* C. Ex. and buy.

Branch, Hazel E., 3756 East Douglas Ave., Wichita, Kans. *Chironomids, esp. larva, egg masses and membracids.*

Brinkman, A. H., Craigmyle, Alta., Can. *Hepaticas, Mosses, Grasses, Carices.* C. Ex.

Brock, C. L., Supt. Parks, Box 1492, Houston, Texas. *Birds, Animals, Plants.* C. Ex. and buy.

Bronson, O. W., Station A., Box 27, San Diego, Calif. *Tax., All branches of Nat. Hist.* C. buy.

Brown, Walter L., Route 1, Box 140, Anaheim, Calif. *Marine, L. and F. W. Shells, Marine Curios, Fossils, Indian Relics.* C. Ex.

Bunting, Martha, Ph.D., Zool. Lab., Univ. of Pa., 4306 Chestnut St., Philadelphia, Pa. *Protozool.*

Campbell, Roy E., Asst. Ent., U. S. Bureau of Ent., Box 297, Alhambra, Calif. *Truck crop insects, Aphidophagus syrphidae.*

Chamberlain, Chauncy W., Hotel Hemenway, Boston, Mass. *Orn.* C. Ex. buy.

Chase, E. P., Box 170, Route A, San Fernando, Calif. *Conch.* C. Ex.

Chermock, Frank H., 1308 Tell St. N. S., Pittsburgh, Pa. *Lepid.*

Clark, Clarence, Lubec, Me. *Orn., Ent.*

Cook, Harold J., Agate, Neb. *Geol., Vert., Palæo., Arch., Gen. Nat. Hist.* C. Ex.

Cox, B. B., Old Science Hall, Iowa City, Iowa. *All Nat. Sci.*

Crellin, Chas. V., 624 Milan Ave., So. Pasadena, Calif. *Bot.*

Croneis, C. G., Univ. of Ark., Fayetteville, Ark. *Palæo.*

Davidson, A. M., M.D., Medical Arts Bldg., Winnipeg, Man., Can. *Ent., Orn.*

Drake, Carl J., Prof. Zool and Ent., Iowa State College, Iowa. *Heteroptera.* C. Ex. buy.

Dreier, Theodore, 27 Weld Hall, Cambridge, Mass. *Orn.*

Edwards, Ira, Cur. of Geol., Public Mus., Milwaukee, Wis. *Geol., Palæo.*

Ehlers, John H., Asst. Prof. Bot., Nat. Sci. Bldg., Ann Arbor, Mich. *Syst. Bot., Phæn.* C. Ex.

Ellender, Wm., 4915 Larchwood Ave., Philadelphia, Pa. *Gen. Nature.* C. Ex.

Ellis, F. E., 30 Elm Place, Webster Groves, Mo. *Indian relics, antique firearms.* C. Ex. and buy.

Etter, A. F., Ettersburg, Calif. *Plant Breeding.*

Ferguson, H. L., Sarasota, Fla. *Birds, Mam., Fish, Shells.* C. Ex. and buy.

Fisher, Cyrus, Belle Vernon, Pa. *Indian relics.* C. Buy.

Fordyce, Geo. L., Youngstown, Ohio. *Orn.: Birds and bird migration.*

Fossler, Mary L., Asst. Prof. Zool., Univ. of So. Calif., 550 N. Los Robles, Pasadena, Calif. *Biol. Chem.*

French, Mrs. Mabel R. W., East Marion, L. I., N. Y. *Orn., Lepid., Wild Flowers, ferns, trees.*

Friend, R. B., 131 Shelton Ave., New Haven, Conn. *Biol., Ent.*

Frykland, P. O., Roseau, Minn. *Gen. collector of curios, Esp. Indian relics. Ent., Ool.*

Gaines, E. F., Cerealist, Wash. Expr. Sta., Pullman, Wash. *Plant Breeding, Orn.*

Garrison, G. L., Bureau of Ent., Washington, D. C., *Diptera.*

Gerling, Herbert O., 1118—39th St., Milwaukee, Wis. *Tropical Fish, Batrachians, Reptiles, Ent., Orn.* C. Ex.

Gilbert, E. M., Prof. Bot., Univ. of Wis., Madison, Wis. *Tremellineæ and Sapralegiaceæ.* C. Ex.

Glass, A. H., Box 196, Walpole, Sask., Can. *Birds east of Rockies.*

Glenn, P. A., Chief Plant Inspector, Dept. of Agric., Urbana, Ill. *Ent.: Insect behavior.*

Goldthwait, James W., Hall Prof. of Geol., Dartmouth Coll., Hanover, N. H. *N. E. Geol. esp. glacial and past glacial.*

Graves, B. H., Prof. of Zool., Wabash Coll., Crawfordsville, Ind. *Fossils, Trilobites, Crinoids, Brochiopods.*

Gregg, Wendell O., A.B., M.D., 815 Montrose Ave., Montrose, Calif. *Conch., Palæo.* C. Ex.

Haskell, R. V., Bureau of Plant Industry, Washington, D. C. *Plant Pathol.*

Herrick, Francis H., Ph.D., Sc.D., Prof. of Biol., Western Reserve, Univ., Adelbert Coll., Cleveland, Ohio. *Gen. Biol., Animal behavior, Orn.*

Hockey, J. Fred, Lab. of Plant Pathology, Fredericton, N. B., Can. *Plant Pathol.*

Hoersfall, John L., Assoc. Prof. Econ. Ent., Penn. State Coll., Field Lab., Bustleton, Pa. *Aphididae.* C. Ex.

Hoffer, G. N., Plant Pathologist, U. S. Dept. Agric., West Lafayette, Ind.

Holt, Wm. P., Head Dept. of Geog., State Normal Sch., Bowling Green, Ohio. *Min. and rocks.* C. Ex.

Hornung, Dr. John, 5219 South Wilton Pl. *Birds of N. A.*

Pack, Arthur N., Assoc. Ed. "Nature Way," 1214—16th St. N. W., Washington, D. C. *Trees..*

Progress and Printing are Inseparable
if you want more business you must
use more printers ink.

WRITE US ABOUT YOUR NEXT ORDER
FOR PRINTED MATTER

The CASSINO PRESS

27 Endicott Street - Salem, Massachusetts.

The Butterfly Store

ESTABLISHED 1904

80 Fifth Avenue - New York.

— Wholesale —

Retail —

Butterflies and moths from all parts of the world

Special prices for Scientific Collectors.

The most beautiful line of Butterfly-trays
Novelties - Jewelry, suitable for gifts.

**DOMESTIC AND IMPORTED SUPPLIES - THE BEST
ON THE MARKET**

TRADE MARK

Reg. U. S. Pat. Office No. 161,836)

PARACIDE

(LICENSED CHEMICAL FOUNDATION No. 199)

KILLS
PARACITES

PROTECT YOUR COLLECTIONS FROM
DESTRUCTIVE INSECTS

WITH

Hooker Paracide

PURE PARADICHLOROBENZINE--NON ADULTERATED

Hooker Electrochemical Co.

25 PINE STREET

New York City

SCIENTIFIC APPARATUS and INSTRUMENTS, CHEMICALS, ANATOMICAL and BIOLOGICAL METHODS

Natural History Specimens (Espeially American Species)

ANATOMICAL PREPARATIONS, WALL CHARTS

Museum & Naturalists' Supplies

Lantern Slides, Microscopes and Accessories

Division of Entomology, Entomological Supplies and Specimens

Write for Illustrated Catalogues, Special Circulars and information to

THE KNY-SCHEERER CORPORATION

Dept. of Natural Science, 404-410 West 27th Street
G. Lagai, Ph.D., NEW YORK, N. Y., U. S. A.

R. D. CAMP
Brownsville, Texas
FIELD COLLECTOR

SPECIALIZES IN
BIRDS and Their EGGS
MAMMALS
REPTILES
MOLLUSKS
CACTI
BIOLOGICAL MATERIAL

Special collecting trips made anywhere, at any time, for any branch of Natural Science.

BORDER AND MEXICAN FAUNA IN PARTICULAR

CORRESPONDENCE SOLICITED

CARPOCAPSA
346 North Goodman Street
ROCHESTER - - NEW YORK
George Franck, Economic Entomologist

Metamorphosis of Insects of Economic and Beneficial Importance. List upon application.

BUTTERFLY TRAYS CRYSTAL BUTTERFLY LOCKETS,
BUTTERFLY FINGER RINGS, BUTTERFLY EAR RINGS.

FOR SALE FOR CASH ONLY

100 species and varieties Shells Echinoderms Corals from San Diego and Imperial Counties, California. Price \$25.00.

A collection of 200 specimens of Corals, Shells, Echinoderms from California and Fresh Water Shells from the Cretaceous of New Mexico with Dinosaur and turtle bones and opalized and other Cretaceous wood especially prepared for the Class Room or Museum. Price \$25.00.

A very choice collection of 20 Shells Echinoderms and Corals, \$10.00. Send \$5.00 for special collection.

**CHARLES H. STERNBERG, 40-46 ARIZONA ST
SAN DIEGO, CALIF.**

Dr. O. Staudinger &
A. Bang-Haas

DRESDEN-BLASEWITZ, GERMANY

ESTABLISHED 1858

We have the *largest* and most accurately *determined* stock
of **INSECTS** of the **WORLD**

Please send for our PRICE LIST with index of genera, families, etc. Indispensable to every Collector, to
every Museum

LEPIDOPTERA No. 58 (29000 species) 50c

COLEOPTERA No. 30 (30000 species), 20c

OTHER INSECTS No. VII (10000 species), 20c

LIST of SERIES No. XII gratis upon request

Containing single specimens, series and collections of all
Insects, Utensils and Books

ENTOMOLOGICAL LIBRARY

Large stock of New and Out of Print Books.

We have acquired the collection and all duplicates of the
celebrated collection FASSL.

A Year of Costa Rica Natural History

By *AMELIA SMITH CALVERT*, *Sometime Fellow in Biology*,
Bryn Mawr College, and *PHILIP POWELL CALVERT*,
Professor of Zoology, University of Pennsylvania

Cloth, 8vo., pp. xix + 577. Frontispiece (of 14 species of insects in colors); 137 black and white illustrations, 5 maps, \$3.00.

Written in non-technical language but recording many new observations. Notes on 250 species of insects (Orthoptera, Odonata, Neuroptera, Coleoptera, Hymenoptera, Lepidoptera, Diptera, Hemiptera). 56 figured: on Arachnids and other animals; on 230 species of plants (60 reproduced from photographs), on human life and manners, volcanoes, earthquakes and Costa Rica in general. Appendices on temperature and weather records, bibliography on Costa Rica.

FOR SALE BY

The American Entomological Society

1900 Race Street, Philadelphia, Pa.

VERMONT FLORA

Dried plants for herbarium collections of flowering plants, ferns, mosses, hepatics and lichens in complete sets or complete for each group at 6c each.

Mosses, hepatics and lichens in white envelopes ready for the herbarium sheet at 8c each. Chicklist of any group or all to choose from at 10c each in lots of 50 or more at one time.

In the last distribution one set contained 385 flowering plants, 55 ferns, 135 mosses, 50 hepatics and 160 lichens.

D. LEWIS DUTTON, Collector and Distributor
BRANDON, V T., U.S.A.

Tropical Butterflies, Moths, etc.

Large stock of specimens always on hand for scientific purposes, and likewise for decorative and art work. Apply for particulars and prices. Also Canadian from all parts of Canada.

WHOLESALE AND RETAIL DEALER

HERBERT S. PARISH

81 ROBERT STREET, TORONTO, CANADA

TITLES AND AUTHORS

Trees by Julia Ellen Rogers

Mushrooms by Nina L. Marshall

Fishes by David Starr Jordan and B. W. Evermann

Insects by Leland O. Howard

Animals by Witmer Stone and W. E. Cram

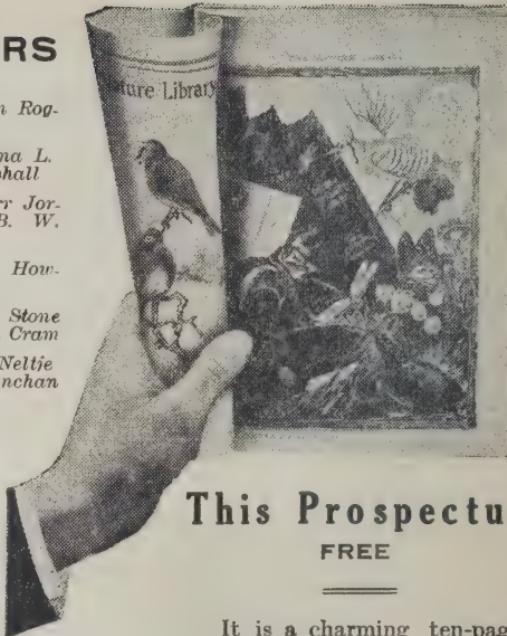
Bird Neighbors by Neltje Blanchan and John Burroughs

Wild Flowers by Neltje Blanchan

Game Birds by Neltje Blanchan

Butterflies by W. J. Holland

Moths by W. J. Holland



This Prospectus

FREE

It is a charming ten-page brochure that contains: a color painting of a magnificent mountain pass; a group of six spring butterflies in all their glory; a rich full-page reproduction of the crab-apple blossom; a wood-thrush in color, painted for the Audubon Societies; a large photograph of John Burroughs in his study; and a 12x8 reproduction in original colors of a nature painting by Lynn Bogue Hunt—besides much else of compelling interest. A limited number of these have been prepared to introduce the New Nature Library.

WRITE A LETTER OR SEND THIS FORM

THE NEW NATURE LIBRARY,

DEP'T N. D. 4,

GARDEN CITY, NEW YORK:

Please send me your Prospectus. I am interested in Nature and shall be glad to know more about your books, terms, etc.

NAME.....

ADDRESS.....

Ward's Natural Science Establishment

ROCHESTER, NEW YORK, U. S. A.

*Largest Stock of Natural Science Material of Any
DEALER IN THE WORLD*

ENTOMOLOGY: Our entomological department was started by the purchase in 1913 of the entire stock and business of the American Entomological Co. of Brooklyn, and we have since that time been continuously adding to it. We make the genuine Schmitt insect boxes and the American Entomological Co. well known pins and can furnish all kinds of entomological supplies. We are at all times prepared to buy collections or exchange specimens.

MINERALOGY AND GEOLOGY. Under the skilful direction of Mr. George L. English our stock of minerals and rocks has been greatly enlarged, and we feel sure that whether you wish to buy a single specimen or a large collection you will find we have just what you require.

PALAEONTOLOGY. Through the courtesy of the American Museum of Natural History and Prof. Lull of Yale University we are able to supply many accurate models and casts not previously distributed. We have also increased our general stock of fossils by the purchase of two large collections. We are anxious to get in touch with collectors who can supply us with fossils from the various parts of the country.

BIOLOGY. Besides the ordinary material for dissection required by the schools and colleges, we have many rare and interesting forms that we can supply carefully mounted in glass jars. We also prepare carefull dissections of the various types studied. Write for our new circular illustrating these. Our stock of Mollusca contains many thousand species. See our illustrated catalogue No. 25.

OSTEOLOGY. We have in stock cleaned and in the rough many hundreds of skeletons and skulls, from that of the little humming bird to that of the elephant. We do our own preparing and mounting, so we can guarantee the results.

TAXIDERMY. Our head taxidermist is, we believe, the equal of any in the leading museums, and due to the large stock of bird and mammal skins on hand we are prepared to furnish either single specimens or complete groups.

HUMAN ANATOMY. Our anatomical models are well known and very generally used throughout this country. We also prepare human osteological specimens of all kinds.

MICROSCOPE SLIDES. Besides the usual slides required by the schools we have brought together several hundred slides of parasites of particular interest to the specialist.

Circulars and Catalogues in all Departments Sent Upon Request

Your Field Equipment

Makers of
Microscopes,
Microtones,
Photographic Lenses
and Shutters
Prism Binoculars
Telescopes
Projection Apparatus
(Balopticons)
Magnifiers and
Reading Glasses
and Other High Grade
Optical Goods

Should include a Bausch & Lomb Compound Pocket Microscope No. 40. This handy little instrument is in every sense of the word a real microscope. Its uses seem unlimited.

Compactness in the Pocket Microscope has not been attained at the expense of usefulness. There are both coarse and fine adjustments for focus, illumination for both transparent and opaque specimens, and magnification from 60 to 250 diameters. Complete in its pocket case measuring only $5 \times 2\frac{1}{4} \times 2\frac{3}{4}$ inches, it weighs 17 ounces. The price is \$35.

"Revealing the Wonders of Nature," our illustrated folder describing the BAUSCH & LOMB COMPOUND POCKET MICROSCOPE, No. 40, will gladly be sent to you upon request.



**Bausch & Lomb
OPTICAL CO.**

New York	Washington	San Francisco
Chicago	Rochester, N. Y.	London

BIOLOGICAL SUPPLIES



Preserved material of all types of Animals and of Algæ, Fungi, Liverworts and Mosses furnished for classwork or for the museum. Also Life histories of insects and of other forms, Microscope Slides, Embryological material and Habitat groups, Catalogues; No. 1 lists Zoological and Embryological material Life histories and Habitat groups. Catalogue No. 2, Botanical material, Plant groups and germination studies; No. 4 Microscopic slides State which is desired. Large stock. Prompt service.

MARINE BIOLOGICAL LABORATORY WOODS HOLE, MASS., U. S. A.

Address Supply Department,

GEORGE M. GRAY
CURATOR

BUTTERFLIES of Oregon

Carefully prepared in Papers for Sale

BUTTERFLY PICTURES, TRAYS, PIN TRAYS VASE HOLDERS

FRED J. BAKER

Box 208, OREGON CITY, OREGON

WANTED TO PURCHASE

First class Skins of Birds belonging to the five following families:

Anatidae, Columbae, Callinae,
Limicolae, Rallidae

ADDRESS H. B. CONOVER
6 SCOTT STREET CHICAGO, ILL.

UNIVERSITY OF ILLINOIS-URBANA

500N219 C002
THE NATURALISTS' DIRECTORY. 1ST ED SALEM
1924



3 0112 017496479